State of Utah

GARY R. HERBERT
Governor

SPENCER J. COX
Lieutenant Governor

Department of
Environmental Quality

Alan Matheson
Executive Director

DIVISION OF WASTE MANAGEMENT
AND RADIATION CONTROL
Ty L. Howard
Director

A meeting of the Waste Management and Radiation Control Board has been scheduled for April 11, 2019 at 1:30 p.m. at the Utah Department of Environmental Quality, Multi-Agency State Office Building, (Conference Room #1015), 195 North 1950 West, SLC.

(One or more Board members may participate telephonically.)
Audio Conferencing Access Number: 1-877-820-7831: Passcode Number 853610#

AGENDA

I. Call to Order.

II. Introduction of new Division Director, Ty L. Howard

III. Public Comments on Agenda Items.

IV. Declarations of Conflict of Interest.

IV. Approval of Meeting Minutes for the February 14, 2019 Board Meeting .....Tab 1 **(Board Action Item)**.

V. Underground Storage Tanks Update .....Tab 2

VI. Administrative Rules .....Tab 3

A. Approval of final adoption of proposed rule changes to Used Oil Rules UAC R315-15-14, to revise the reimbursement rate for DIYer used oil collection centers (**Board Action Item**).

B. Approval of final adoption of proposed rule changes to X-Ray Rules UAC R313-28, to allow the use of whole body x-ray units for security purposes (**Board Action Item**).

C. Approval of final adoption of proposed rule changes to UAC R315-260, R315-261, and R315-262 for recalled Takata airbag inflators (**Board Action Item**).

VII. Hazardous Waste Section.....Tab 4

A. Proposed Stipulation and Consent Order between the Board and Clean Harbors, Aragonite (Information Item Only).

(Over)

195 North 1950 West • Salt Lake City, UT
Mailing Address: P.O. Box 144880 • Salt Lake City, UT 84114-4880
Telephone (801) 536-0200 • Fax (801) 536-0222 • T.D.D. (801) 536-4284
www.deq.utah.gov

VIII. Low-Level Radioactive Waste Section .....Tab 5

A. Energy*Solutions*' request for a site-specific treatment variance from the Hazardous Waste Management Rules. Energy*Solutions* seeks authorization to treat waste containing High-Subcategory Mercury by stabilization (Information Item Only).

IX. Director's Report.....Tab 6

X. Election of Board Chair and Vice Chair (**Board Action Item**).

XI. Other Business.

A. Misc. Information Items.
B. Scheduling of next Board meeting (May 9, 2019).

XII. Adjourn.

In compliance with the Americans with Disabilities Act, individuals with special needs (including auxiliary communicative aids and services) should contact Kimberly Diamond-Smith, Office of Human Resources at (801) 536-4285, Telecommunications Relay Service 711, or by email at "kdiamondsmith@utah.gov".

Waste Management and Radiation Control Board Meeting
Utah Department of Environmental Quality
195 North 1950 West (Conference Room #1015) SLC, Utah
February 14, 2019
1:30 p.m.

Board Members Present: Brett Mickelson (Chair), Dennis Riding (Vice-Chair), Danielle Endres, Marc Franc, Brad Johnson (DEQ Deputy Director), Steve McIff, Vern Rogers and Shane Whitney

Board Members Telephonic Participation: Richard Codell, Jeremy Hawk and Shawn Milne

Board Members Absent/Excused: Nathan Rich

Staff Members Present: Rusty Lundberg, Brent Everett, Tom Ball, Kevin Carney, Ed Costomiris, David Esser, Arlene Lovato, Kaci McNeill, Bret Randall, Elisa Smith, Don Verbica and Otis Willoughby

Others Present: Judy Fahys

I. Call to Order.

Brett Mickelson (Chair) welcomed all in attendance and called the meeting to order at 1:30 p.m. Richard Codell, Jeremy Hawk and Shawn Milne participated via telephone.

II. Public Comments. – None.

III. Declarations of Conflict of Interest. – None.

IV. Approval of Meeting Minutes for the January 10, 2019 Board Meeting (**Board Action Item**).

It was moved by Shane Whitney and seconded by Danielle Endres and UNANIMOUSLY CARRIED to approve the January 10, 2019 Board Meeting minutes.

V. Underground Storage Tanks Update.

Brent Everett, Director of the Division of Environmental Response and Remediation (DERR), informed the Board that the cash balance of the Petroleum Storage Tank (PST) Trust Fund at the end of December 2018 was $13,891,549.00. The preliminary estimate for the cash balance of the PST Trust Fund for the end of January 2019 is $13,904,114.00. The PST Trust Fund is managed on a cash balance basis to ensure sufficient coverage for known claims that have been reported. The balance of the PST Trust Fund is watched closely to ensure sufficient coverage for covered releases.

Mr. Everett also provided the Board with statistics from the Underground Storage Tank (UST) program for the 2018 calendar year. There were 936 inspections completed during the year. There were 101 USTs that were closed and 105 new USTs installed. The number of UST facilities in Utah fluctuated throughout the year but as of the end of January 2019, there are 1,308 regulated UST facilities in Utah. Of those facilities, 936 or 72% participate in the PST Trust Fund.

Mr. Everett informed the Board that there is not any proposed legislation that will impact programs within the DERR this year.

VI. Administrative Rules.

A. Approval to proceed with formal rulemaking and 30-day public comment period for proposed changes to Used Oil Rules UAC R315-15-14, to revise the reimbursement rate for DIYer used oil collection centers (Board Action Item).

Tom Ball, Planning and Technical Support Section Manager, reviewed the request for the Board to initiate formal rulemaking by filing with the Office of Administrative Rules and publishing in the March 1, 2019 Utah State Bulletin the proposed changes to UAC R315-15-14, Do-It-Yourself (DIYer) Reimbursement. Also to begin a 30-day public comment period from March 1, 2019 to April 1, 2019 on the proposed rule.

This request changes the reimbursement period for DIYer Used Oil Collection Centers (UOCC) from quarterly to semi-annually and increases the reimbursement rate from $0.16 per gallon to $0.25 per gallon for oil collected. The proposed rule changes to UAC R315-15-14 were provided to the Board in their February 14, 2019 Board packet.

Mr. Ball explained that several DIYer UOCCs were not receiving their reimbursements due to a conflict between the rule and agreements between the Division and Local Health Departments (LHD). Agreements between the Division and the LHDs require the LHDs to conduct semi-annual inspections of the DIYer UOCCs. During these inspections, the LHDs collect the used oil collection log sheets from the DIYer UOCCs. Because this was being done only twice a year, several of the DIYer UOCCs were not receiving their reimbursements because the time period for reimbursement in rule is quarterly. In order to correct this problem, the time period in the rule for reimbursements is being changed from quarterly to semi-annually and an additional 30 days has been added to the time period for submission of requests for a total time frame of 60 days to submit reimbursement requests.

Also, the reimbursement rate for DIYer UOCCs has not increased since 1993. Because of this, some DIYer UOCCs are not recycling their oil as this rate is too low to make it worth the cost of transportation. Based on an analysis performed by the Division, it has been determined that $0.16 per gallon in 1993 dollars is equivalent to $0.25 per gallon in 2017 dollars and therefore the Division is proposing to raise the rate to $0.25 per gallon. The Board is authorized under Subsection 19-6-704(1) to make rules necessary to administer the used oil recycling program. The Board is authorized under Section 19-6-717 to establish by rule the amount of payment the Division shall pay as a recycling incentive to registered DIYer UOCCs. This allows the Board to increase the amount to promote collection of used oil as long as there are funds available in the Used Oil Collection Administration Account. The rule changes also meet existing DEQ and state rulemaking procedures.

In accordance with Utah Code §19-6-717, the Board must determine that there are enough funds available to fund the increase. Cost analysis show that for the last three fiscal years, the Used Oil Collection Administration Account has maintained an average balance of $748,768 after all expenses, including reimbursements for used oil collected, have been paid. The largest amount of used oil collected for which reimbursements were paid out of the fund in one year was 474,205 gallons (the information provided to the Board in their February 14, 2019 Board packet incorrectly listed it as $ 474,205 gallons). At $0.25 per gallon this would result in an increase of $42,678 dollars to the total reimbursements paid out of the account. Based on the review of the account balance for the last three years there are adequate funds to cover this increase in cost.

Board approval is necessary to begin the formal rulemaking process by filing with the Office of Administrative Rules and conducting a public comment period. The Acting Director recommended the Board approve proceeding with formal rulemaking and public comment.

It was moved by Mark Franc and seconded by Dennis Riding and UNANIMOUSLY CARRIED to proceed with formal rulemaking and 30-day public comment period on proposed changes to Used Oil Rules UAC R315-15-14.

B. Approval to proceed with formal rulemaking and 30-day public comment period for proposed rule changes to X-Ray Rules R313-28, to allow the use of whole body x-ray units for security purposes (Board Action Item).

Tom Ball, reviewed the request for the Board to initiate formal rulemaking by filing with the Office of Administrative Rules and publishing in the March 1, 2019 Utah State Bulletin proposed changes to UAC R313-28-31 allowing the use of low dose, whole body scanners used for security purposes in correctional facilities. Also to begin a 30-day public comment period from March 1, 2019 to April 1, 2019 on the proposed rule.

UAC R313-28-31 currently prohibits the exposure of individuals to x-rays except for healing arts purposes when the exposure has been specifically ordered and authorized by a licensed individual. In 2014, the Division of Radiation Control learned that jails and prisons were using low dose, whole body scanners for security purposes when two scanners were registered. Since that time, an additional five scanners have been registered. While not being used for healing arts, the Division considers this a legitimate use of x-ray equipment. Due to the current prohibition in the rules, the Board would be required to issue an exemption for each of these scanners.

Because the Division considers this type of scanning to be a legitimate use and due to the increasing numbers of the scanners being registered, the Division feels that an exemption written into the rules would be more efficient than issuing an exemption for each individual scanner.

The Executive Summary and the proposed rule changes to UAC R313-28-31 were provided to the Board in their February 14, 2019 Board packet.

The Board is authorized under Subsection 19-6-104 to make rules that are necessary to implement the provision of the Radiation Control Act. The proposed rule changes also meet existing DEQ and state rulemaking procedures. Board approval is necessary to begin the formal rulemaking process by filing with the Office of Administrative Rules and conducting a public comment period. The Acting Director recommended the Board approve proceeding with formal rulemaking and public comment.

Dick Codell questioned if an evaluation had been conducted on the total amount of dose that an individual may be exposed to over a year long period. Mr. Ball stated an evaluation of the exposures caused by the scanners has been determined that it will be well below what is considered safe for human exposure. Mr. Codell stated his concern is with the frequency of exposure. Mr. Ball stated that he's not aware of the frequency of the exposure to these scanners, as they are not being used for visitors, they will be used on the inmates specifically searching for contraband, etc.

Mr. Ball clarified that UAC R313-28-31 currently prohibits the exposure of individuals to x-rays except for healing arts when the exposure has been specifically ordered and authorized by a licensed individual. This rule change only addresses the prohibition. These machines will still be required to be registered, inspected, etc.

Jeremy Hawk questioned if any exemption requirements associated with training the operator, etc. will be changed. Mr. Ball stated no exemptions will be made except for the prohibition. Mr. Hawk had concerns regarding the training requirements. Mr. Ball stated that training requirements are administered through

DOPL. Mr. Hawk questioned UAC R313-28-31(2)(b) and asked if that needed to be addressed in the rule changes. Mr. Ball stated he will look into this matter and report back at the next meeting. Rusty Lundberg stated that if additional rule changes are necessary, it will be brought back before the Board.

It was moved by Steve McIff and seconded by Danielle Endres and UNANIMOUSLY CARRIED to proceed with formal rulemaking and 30-day public comment period on proposed changes to X-Ray Rules UAC R313-28, to allow the use of whole body x-ray units for security purposes.

C. Approval to proceed with formal rulemaking and 30-day public comment period for proposed rule changes to UAC R315-260, R315-261, and R315-262 for recalled Takata airbag inflators (Board Action Item).

Tom Ball, reviewed the request for the Board to initiate formal rulemaking by filing with the Office of Administrative Rules and publishing in the March 1, 2019 Utah State Bulletin, the proposed changes to R315-260, Hazardous Waste Management System, R315-261, General Requirements – Identification and Listing of Hazardous Waste, R315-262, Hazardous Waste Generator Requirements of the hazardous waste rules to incorporate federal regulatory changes promulgated by the Environmental Protection Agency (EPA) and published in the Federal Register on November 30, 2018 (83 FR 61552). Also to begin a 30-day public comment period from March 1, 2019 to April 1, 2019 on the proposed rules.

Mr. Ball informed the Board that a copy of the Federal Register was inadvertently left out of the February 14, 2019 Board Packet.

In May of 2015, the U.S. Department of Transportation (DOT) announced a national recall of airbag inflators manufactured by Takata due to a defect which has resulted in fifteen deaths and at least 250 injuries in the U.S. as of August 2018. This recall affects 19 vehicle manufactures with approximately 60-70 million airbag inflators. A Preservation Order issued by DOT in February 2015 required Takata to preserve all recalled airbag inflators. The EPA issued a memorandum in June of 2017, stating that the recalled airbag inflators were not subject to hazardous waste regulations while being held under the Preservation Order. The EPA clarification states that the recalled inflators would be considered a solid waste once the order was lifted. Airbag inflators meet both the ignitability and reactivity hazardous waste characteristics and therefore would need to be managed as a hazardous waste. In April of 2018, the Preservation Order was amended requiring Takata to keep only a percentage of the inflators allowing the remainder to be disposed. The amended order no longer requires affected vehicle manufacturers to send their recalled airbag inflators to Takata thus allowing the manufacturers to dispose of the inflators on their own. DOT has determined that it is imperative that the recall of these airbag inflators be accelerated because the risk of serious injury or death increases over time because the inflators become more unstable as they age and are exposed to high humidity. It is believed that these rule changes will assist in facilitating the recall by exempting the collection of airbags from the hazardous waste requirements, as long as certain conditions are met. These rule changes became effective at the Federal level on November 30, 2018. The proposed changes to UAC R315-260, 261 and 262 were provided in the Board's February 14, 2019 Board packet.

The Board is authorized under Subsection 19-6-105(1)(c) to make rules governing generators and transporters of hazardous wastes and owners and operators of hazardous waste treatment, storage and disposal facilities. The rule changes also meet existing DEQ and state rulemaking procedures.

Board approval is necessary to begin the formal rulemaking process by filing with the Office of Administrative Rules and conducting a public comment period. The Acting Director recommended the Board approve proceeding with formal rulemaking and public comment.

Mr. Ball clarified that the airbags are required to be sent to EPA designated incineration facilities. Mr. Ball stated that this rule change is to align our requirements with the EPA. The airbags are currently in storage in three facilities that are managed by Takata. The rule limits the number of airbags stored to 250 with a time limit of 180 days at dealerships/manufacturers that remove the airbags. The goal is to not have these airbags left around with the potential of being reinstalled in other vehicles.

It was moved by Danielle Endres and seconded by Steve McIff and UNANIMOULSY CARRIED to proceed with formal rulemaking and 30-day public comment period on proposed changes to UAC R315-260, R315-261, and R315-262 for recalled Takata airbag inflators.

VII. Radioactive Materials.

A. Approval for the move of Radioactive Action Materials from the Multi-Agency State Office Building to the Technical Services Center. Radioactive Materials License Number UT 1800133 exemption from the requirements in 10 CFR 71.5(b) which are equivalent to the requirements found in UAC R313-19-100(5)(b) (Board Action Item).

Ryan Johnson, Environmental Scientist, UMILLS/Ram Section, reviewed the request from the Division for a one-time exemption from the requirements in 10 CFR 71.5(b) which are equivalent to the requirements found in UAC R313-19-100(5)(b).

In March or April 2019, the Department of Environmental Quality will be moving environmental monitoring equipment and other items into the Technical Services Center, located at 240 North 1950 West in Salt Lake City, Utah. A portion of the building is assigned to the Division. The Division will use the TSC to house its calibrator and other calibration and reference sources containing small quantities of radioactive materials (not regulated by the NRC), and other specialized equipment. The Division uses the calibrator to calibrate radiation survey instruments used during inspections and investigations. The provisions of 49 CFR 171.1(d)(5) state, in part, that the hazardous material requirements for transportation do not apply to the transportation of a hazardous material in a motor vehicle operated by a State employee solely for noncommercial government purposes. Under the NRC's authority, the requirements of 10 CFR 71.5(b) were promulgated to ensure that licensees transporting radioactive materials comply with the applicable portions of DOT regulations even when those shipments do not enter into commerce and therefore are not subject to DOT requirements. Therefore, pursuant to 10 CFR 71.5(b), all radioactive materials transported by State personnel in State owned and operated vehicles would be required to comply with the DOT requirements even though the radioactive materials are not considered to be in commerce.

On June 1, 2018, the U.S. Nuclear Regulatory Commission (NRC) sent a communication to the Agreement States to clarify the applicability of the DOT requirements found in Title 49 of the Code of Federal Regulations (CFR) to the transportation of radioactive materials and when licensees would need to request an exemption from the NRC's transportation requirements found in 10 CFR Part 71. (A copy of NRC's letter was provided to the Board in their February 14, 2019 Board packet.)

Based on this notice, in the fall of 2018, the University of Utah (U of U) requested an exemption from UAC R313-19-100(5)(b) [10 CFR 71.5(b)] which the Board granted. The Division now needs to request a similar exemption; however, this will be a one-time exemption and will not be ongoing.

All Agreement States are required to adopt and implement requirements that are essentially identical to the requirements found in 10 CFR 71.5(b) in order to maintain compatibility with NRC Program requirements. The State of Utah adopted requirements that are essentially identical to 10 CFR 71.5(b) in Utah which are found in UAC R313-19-100(5)(b). The calibrator and reference sources all contain small quantities of radioactive materials. The largest source is contained in the calibrator and while it is a relatively small

source, this source is required to be licensed. The source in the calibration device is shielded by the calibrator in a manner that minimizes the radiation exposures to nearby individuals when the source is locked in its shielded position. The source would be required to be stored and locked in the shielded position within the calibrator prior to transport. Therefore, in order to transport the calibrator as stated above, and any other calibration or reference sources regulated by the NRC from the MASOB to the TSC, the Division is requesting an exemption from the requirements of UAC R313-19-100(5)(b) [10 CFR 71.5(b)].

Since this exemption request will only apply to a one-time transport of small quantities of radioactive materials, that will be transported by the Division personnel, and poses no undue hazard to the public or the environment, the Acting Director recommended that the exemption be approved. This calibrator will be on a public road for approximately 200 meters.

It was moved by Mark Franc and seconded by Shawn Milne and UNANIMOUSLY CARRIED to approve the exemption from the requirements in 10 CFR 71.5(b) which are equivalent to the requirements found in UAC R313-19-100(5)(b).

Rusty Lundberg informed the Board that the new TSC is near completion and that Brad Johnson, DEQ Deputy Director, has been instrumental in coordinating the many details that have gone into the design and construction to ensure that it meets all the Department's needs. Mr. Lundberg expressed appreciation, on behalf of the Department, to Brad and his efforts in accomplishing this task. The TSC will be able to house and co-locate all of the monitoring and field services that are conducted by the Department while providing improved facilities. It is anticipated that the move of the radioactive action materials from the MASOB to the TSC will occur next month.

Brad Johnson stated that this particular source will be located in a room that has 10" thick concrete walls, providing for a more secure location. Brad stated the TSC will be a tremendous addition to enhance the work conducted at DEQ. A certificate of occupancy is expected to be obtained the first week in March; it is anticipated it will take approximately a month to get all the items moved over.

Rusty invited the Board to tour the TSC at a future meeting, possibly at the end of the next Board meeting.

VIII. Director's Report.

Rusty Lundberg reviewed the "Bill Summary" for legislation introduced during the 2019 Legislative session. A handout was provided to the Board. (A copy of this handout is provided with the meeting minutes).

Rusty informed the Board that in conjunction with the information provided regarding H.B. 310, Solid and Hazardous Waste Amendments, a copy of a letter from the EPA was distributed to the Board regarding a deficiency EPA had identified that affects the equivalency of Utah's authorized RCRA Subtitle C Hazardous Waste Program with the federal RCRA statute and federal hazardous waste rules that was addressed by H.B. 310. (A copy of this letter is provided with the meeting minutes.)

Rusty discussed H.B. 220 stating that one portion of the bill was intended to provide an evaluation process for waste streams based upon the operational procedures that are in place for Class A waste material. The waste will be evaluated without applying any additional credit for engineered barriers, while recognizing existing operational procedures that are in place in order to determine ultimate exposures and waste acceptability.

Board members requested further clarification regarding H.B. 220, specifically if Class B and Class C waste, under certain circumstances, could be accepted at EnergySolutions. Rusty stated that the waste will be

evaluated based on its concentration rather than a classification. EnergySolutions would be required to demonstrate that the waste would be safe for disposal.

Board members asked if they would be involved in the process to approve this type of waste on a case-by-case basis. Rusty stated the bill is written so that the Director of the Division would authorize alternate requirements for waste acceptance. Rusty stated that the Board was involved in the DU penetrator request f because it was a request for an exemption of a rule and in those cases the Board is the proper jurisdictional authority. Waste classification is a role of the Division. The Director oversees and licensing for the proper management of licensed material and waste that are accepted by Energy*Solutions*.

Bret Randall, Attorney General's Office, stated that unless the language changes, there is a provision the Board may undertake rulemaking with the respect to this power the Director would have. This is based on 10 CFR 61.58. The Legislature is giving the authority to the Director and the role for the Board would be any rule making required by this legislation.

IX. Other Business.

A. Misc. Information Items. – None to Report.
B. Scheduling of next Board meeting.

The Board meeting scheduled for March 14, 2019 was cancelled. The next Board meeting will be held on April 11, 2019 at 1:30 p.m. at the Utah Department of Environmental Quality, located at 195 North 1950 West, SLC.

X. Adjourn.

The meeting adjourned at 2:15 p.m.

UST STATISTICAL SUMMARY
March 1, 2018 -- February 28, 2019

PROGRAM

	March	April	May	June	July	August	September	October	November	December	January	February	(+/-) OR Total
Regulated Tanks	4,061	4,064	4,066	4,061	4,058	4,067	4,068	4,065	4,072	4,068	4,062	4,067	**6**
Tanks with Certificate of Compliance	3,968	3,976	3,976	3,982	3,986	3,992	3,986	3,989	3,990	3,999	4,002	3,998	**30**
Tanks without COC	93	88	90	79	72	75	82	76	82	69	60	69	**(24)**
Cumulative Facilitlies with Registered A Operators	1,307	1,305	1,264	1,261	1,296	1,300	1,299	1,300	1,302	1,304	1,302	1,300	**97.74%**
Cumulative Facilitlies with Registered B Operators	1,308	1,306	1,306	1,303	1,301	1,304	1,303	1,302	1,304	1,306	1,304	1,302	**97.89%**
New LUST Sites	8	1	7	6	15	5	7	7	9	4	2	4	**75**
Closed LUST Sites	8	5	13	5	15	16	6	16	4	7	9	4	**108**
Cumulative Closed LUST Sites	5106	5110	5125	5131	5146	5162	5167	5182	5187	5196	5204	5209	**103**

FINANCIAL

	March	April	May	June	July	August	September	October	November	December	January	February	(+/-)
Tanks on PST Fund	2,706	2,705	2,698	2,704	2,704	2,703	2,690	2,692	2,696	2,697	2,693	2,689	**(17)**
PST Claims (Cumulative)	686	687	686	687	688	686	687	688	688	689	689	690	**4**
Equity Balance	-$13,656,255	-$14,076,436	-$14,562,872	-$14,838,728	-$14,362,717	-$14,322,626	-$12,290,504	-$11,828,687	-$11,575,752	-$12,246,462	$12,233,897	$11,795,381	**$25,451,636**
Cash Balance	$14,788,641	$14,368,460	$13,882,024	$13,606,168	$14,082,179	$14,122,270	$13,847,507	$14,309,324	$14,562,259	$13,891,549	$13,904,114	$14,342,630	**($446,011)**
Loans	0	0	1	0	0	0	0	0	0	0	2	2	**2**
Cumulative Loans	112	112	113	113	113	113	113	113	113	113	115	117	**5**
Cumulative Amount	$4,079,887	$4,079,887	$4,229,887	$4,229,887	$4,229,887	$4,229,887	$4,229,887	$4,229,887	$4,229,887	$4,229,887	$4,253,415	$4,317,727	**$237,840**
Defaults/Amount	1	1	1	1	1	1	1	1	1	1	1	1	**0**

	March	April	May	June	July	August	September	October	November	December	January	February	TOTAL
Speed Memos	17	28	51	31	16	38	20	29	25	0	25	16	**296**
Compliance Letters	6	1	1	7	3	13	7	6	0	1	4	4	**53**
Notice of Intent to Revoke	0	0	0	0	0	0	1	0	0	0	0	0	**1**
Orders	0	1	0	0	0	1	0	0	1	0	0	1	**4**

WASTE MANAGEMENT AND RADIATION CONTROL BOARD
Executive Summary
Final Adoption
UAC R315-15-14, Standards for the Management of Used Oil, DIYer Reimbursement
April 11, 2019

What is the issue before the Board?	Final approval from the Board is needed to adopt changes to R315-15-14 that change the reimbursement period for Do-It-Yourself (DIY) Used Oil Collection Centers (UOCC) that are reimbursed for the oil they collect from quarterly to semi-annually and to increase the reimbursement rate from $0.16 per gallon to $0.25 per gallon.
What is the historical background or context for this issue?	At the Board meeting on February 14, 2019, the Board approved the proposed changes to R315-15-14 to be filed with the Office of Administrative Rules for publication in the Utah State Bulletin. The proposed rule changes were published in the March 1, 2019 issue of the Utah State Bulletin (Vol. 2019, No. 5). The public comment period for this rulemaking ended on April 1, 2019. No comments were received. Selected pages from the Utah State Bulletin showing the publication of the propose changes follow this Executive Summary.
What is the governing statutory or regulatory citation?	The Board is authorized under Subsection 19-6-704(1) to make rules necessary to administer the used oil program. The Board is authorized under Section 19-6-717 to establish by rule the amount of payment the division shall pay as a recycling incentive to registered DIYer UOCCs. The rule changes also meet existing DEQ and state rulemaking procedures.
Is Board action required?	Yes. Board approval for final adoption of the rule changes is necessary.
What is the Division Director's recommendation?	The Director recommends the Board approve final adoption of the rule changes to R315-15-14 as published in the March 1, 2019 issue of the Utah State Bulletin and set an effective date of April 15, 2019.

Where can more information be obtained?	Please contact Tom Ball (801) 536-0251, (tball@utah.gov), Deborah Ng (801) 536-0218, (dng@utah.gov) or Rusty Lundberg (801) 536-4257, (rlundberg@utah.gov).

UTAH STATE BULLETIN

OFFICIAL NOTICES OF UTAH STATE GOVERNMENT
Filed February 02, 2019, 12:00 a.m. through February 15, 2019, 11:59 p.m.

Number 2019-5
March 01, 2019

Nancy L. Lancaster, Managing Editor

The *Utah State Bulletin (Bulletin)* is an official noticing publication of the executive branch of Utah state government. The Office of Administrative Rules, part of the Department of Administrative Services, produces the *Bulletin* under authority of Section 63G-3-402.

The Portable Document Format (PDF) version of the *Bulletin* is the official version. The PDF version of this issue is available at httsp://rules.utah.gov/. Any discrepancy between the PDF version and other versions will be resolved in favor of the PDF version.

Inquiries concerning the substance or applicability of an administrative rule that appears in the *Bulletin* should be addressed to the contact person for the rule. Questions about the *Bulletin* or the rulemaking process may be addressed to: Office of Administrative Rules, PO Box 141007, Salt Lake City, Utah 84114-1007, telephone 801-538-3003. Additional rulemaking information and electronic versions of all administrative rule publications are available at https://rules.utah.gov/.

The information in this *Bulletin* is summarized in the *Utah State Digest (Digest)* of the same volume and issue number. The *Digest* is available by e-mail subscription or online. Visit https://rules.utah.gov/ for additional information.

Office of Administrative Rules, Salt Lake City 84114

Utah state bulletin.
Semimonthly.
1. Delegated legislation--Utah--Periodicals. 2. Administrative procedure--Utah--Periodicals.
I. Utah. Office of Administrative Rules.

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R315-15-14
DIYer Reimbursement

NOTICE OF PROPOSED RULE
(Amendment)
DAR FILE NO.: 43529
FILED: 02/14/2019

RULE ANALYSIS

PURPOSE OF THE RULE OR REASON FOR THE CHANGE: It has come to the attention of the Division of Waste Management and Radiation Control, Waste Management (Division) that several Do-It-Yourself (DIY) Used Oil Collection Centers (UOCC) were not receiving their reimbursements due to a conflict between the rule and agreements between the Division and Local Health Departments (LHD). Agreements between the Division and the LHDs require the LHDs to conduct semi-annual inspections of the DIYer UOCCs in their jurisdictions. During these inspections, the LHDs collect the used oil collection log sheets from the DIYer UOCCs. Because this was being done only twice a year, several of the DIYer UOCCs were not receiving their reimbursements because the time period for reimbursement in rule is quarterly. In order to correct this problem, the time period in this rule for reimbursements in being changed to semi-annually. The reimbursement rate for DIYer UOCCs has not increased since 1993. The Division has become aware that some DIYer UOCCs are not recycling their oil because the reimbursement rate is too low to make it worth the cost of transportation. Based on an analysis performed by the Division, it has been determined that $0.16 per gallon in 1993 dollars is equivalent to $0.25 per gallon in 2017 dollars and therefore, the Division is proposing to raise the rate to $0.25 per gallon.

SUMMARY OF THE RULE OR CHANGE: Subsection R315-15-14.1(a) is amended to state that the Director will pay a semi-annual recycling fee incentive instead of a quarterly fee incentive. Subsections R315-15-14.2(a) and (c) are amended to change from a quarterly to a semi-annual payment period, and provide an additional 30 days for submission of reports. Additionally, the requirement for DIYer UOCCs to submit receipts as part of their request for reimbursement was removed from this subsection. The amount of the recycling incentive payable to registered DIYer UOCCs is being raised from $0.16 per gallon to $0.25 per gallon in Subsection R315-15-14.1(b).

STATUTORY OR CONSTITUTIONAL AUTHORIZATION FOR THIS RULE: Section 19-6-704 and Section 19-6-717

ANTICIPATED COST OR SAVINGS TO:

♦ THE STATE BUDGET: Because the recycling incentive amount is being increased, the amount of money paid out of the Used Oil Collection Administration Restricted Account will increase. The highest volume of used oil that reimbursements were paid for was 474,205 gallons. This was reimbursed at the rate of $0.16 per gallon for an annual total of $75,873. The increase in the reimbursement rate to $0.25 per gallon would result in an increase in the amount of money payed out of the fund by $42,678 annually. Additionally, there are three state government entities that operate registered DIYer UOCCs and would be eligible for reimbursement at the new rate of $0.25 per gallon. These three entities make up approximately 0.69% of the total number of registered DIYer UOCCs and could potentially receive a total of approximately $295 between the three entities depending on how much used oil is collected. Amounts of used oil collected vary depending on many factors and it is not possible to determine if a DIYer UOCC will collect the same amount of used oil or more than was collected in the past.

♦ LOCAL GOVERNMENTS: There are 46 local government entities that operate registered DIYer UOCCs that would be eligible for reimbursement at the new rate of $0.25 per gallon. These 46 entities make up approximately 10.6% of the total number of registered DIYer UOCCs and could potentially receive a total of approximately $4,523 between them depending on how much used oil is collected. Amounts of used oil collected vary depending on many factors and it is not possible to determine if a DIYer UOCC will collect the same amount of used oil or more than was collected in the past.

♦ SMALL BUSINESSES: There are 350 small businesses that operate registered DIYer UOCCs that would be eligible for reimbursement at the new rate of $0.25 per gallon. These 350 businesses make up approximately 80.6% of the total number of registered DIYer UOCCs and could potentially receive a total of approximately $34,418 between them depending on how much used oil is collected. Amounts of used oil collected vary depending on many factors and it is not possible to determine if a DIYer UOCC will collect the same amount of used oil or more than was collected in the past.

♦ PERSONS OTHER THAN SMALL BUSINESSES, BUSINESSES, OR LOCAL GOVERNMENTAL ENTITIES: It is not anticipated that these rule changes will provide any direct or indirect cost or savings to persons other than small businesses, businesses, or local government entities because the Division is only aware of the registered DIYer UOCCs that will be directly impacted as stated above.

COMPLIANCE COSTS FOR AFFECTED PERSONS: It is not anticipated that compliance with these rule changes will result in any increased cost of compliance for any of the regulated entities. It is anticipated that there may be a slight decrease in costs due to the change from quarterly to semi-annual submittals of requests for reimbursement.

COMMENTS BY THE DEPARTMENT HEAD ON THE FISCAL IMPACT THE RULE MAY HAVE ON BUSINESSES: These rule changes will result in more money being paid out of the Used Oil Collection Administration Restricted Account, however, this is the purpose of the fund. The money paid out will benefit the companies and agencies that operate registered DIYer UOCCs by helping to pay for the recycling of the used oil they collect. Recycling of used oil benefits the citizens of Utah by conserving resources and ensuring that the used oil does not end up contaminating the environment and having a negative effect on human health.

THE FULL TEXT OF THIS RULE MAY BE INSPECTED, DURING REGULAR BUSINESS HOURS, AT:

ENVIRONMENTAL QUALITY
WASTE MANAGEMENT AND RADIATION CONTROL, WASTE MANAGEMENT
SECOND FLOOR
195 N 1950 W
SALT LAKE CITY, UT 84116-3097
or at the Office of Administrative Rules.

DIRECT QUESTIONS REGARDING THIS RULE TO:
♦ Rusty Lundberg by phone at 801-536-4257, by FAX at 801-536-0222, or by Internet E-mail at rlundberg@utah.gov
♦ Thomas Ball by phone at 801-536-0251, or by Internet E-mail at tball@utah.gov

INTERESTED PERSONS MAY PRESENT THEIR VIEWS ON THIS RULE BY SUBMITTING WRITTEN COMMENTS NO LATER THAN AT 5:00 PM ON 04/01/2019

THIS RULE MAY BECOME EFFECTIVE ON: 04/15/2019

AUTHORIZED BY: Alan Matheson, Executive Director

Appendix 1: Regulatory Impact Summary Table*

Fiscal Costs	**FY 2019**	**FY 2020**	**FY 2021**
State Government	$42,678	$42,678	$42,678
Local Government	$0	$0	$0
Small Businesses	$0	$0	$0
Non-Small Businesses	$0	$0	$0
Other Person	$0	$0	$0
Total Fiscal Costs:	**$42,678**	**$42,678**	**$42,678**
Fiscal Benefits			
State Government	$295	$295	$295
Local Government	$4,523	$4,523	$4,523
Small Businesses	$34,418	$34,418	$34,418
Non-Small Businesses	$3,442	$3,442	$3,442
Other Persons	$0	$0	$0
Total Fiscal Benefits:	**$42,678**	**$42,678**	**$42,678**
Net Fiscal Benefits:	**$0**	**$0**	**$0**

***This table only includes fiscal impacts that could be measured. If there are inestimable fiscal impacts, they will not be included in this table. Inestimable impacts for State Government, Local Government, Small Businesses and Other Persons are described in the narrative. Inestimable impacts for Non-Small Businesses are described in Appendix 2.**

Appendix 2: Regulatory Impact to Non-Small Businesses
There are 35 non-small businesses that operate registered Do-It-Yourself (DIY) Used Oil Collection Centers (UOCC) in Utah. For a complete listing of NAICS codes used in this analysis, please contact the agency. These businesses make up approximately 8.1% of the total number of registered DIYer UOCCs and could potentially receive a total of approximately $3,442 annually between them depending on how much used oil is collected. Amounts of used oil collected vary depending on many factors and it is not possible to determine if a DIYer UOCC will collect the same amount of used oil or more than was collected in the past.

The head of the Department of Environmental Quality, Alan Matheson, has reviewed and approved this fiscal analysis.

R315. Environmental Quality, Waste Management and Radiation Control, Waste Management.
R315-15. Standards for the Management of Used Oil.
R315-15-14. DIYer Reimbursement.

14.1 DIYER USED OIL COLLECTION CENTER INCENTIVE PAYMENT APPLICABILITY

(a) The Director shall pay a [~~quarterly~~]semi-annual recycling fee incentive to registered DIYer used oil collection centers and curbside programs approved by the Director for each gallon of used oil collected from DIYer used oil generators, and transported by a permitted used oil transporter to a permitted used oil processor/re-refiner, burner, registered marketer or burned in accordance with R315-15-2.4(b).

(b) All registered DIYer used oil collection centers can qualify for a recycling incentive payment of up to [~~$0.16~~]$0.25 per gallon, subject to availability of funds and the priorities of Utah Code Annotated 19-6-720.

14.2 REIMBURSEMENT PROCEDURES

In order for DIYer collection centers to qualify for the recycling incentive payment they are required to comply with the following procedures.

(a) Submit a copy of all records [~~and receipts~~]of DIYer and farmer, as defined in R315-15-2.1(a)(4), used oil collected during [~~the quarter~~]the semi-annual collection periods of January through June and July through December for which the reimbursement is requested. These records shall be submitted within 30 days following the end of the [~~calendar quarter~~]semi-annual collection period[~~ in which the DIYer oil was collected and for which reimbursement is requested~~].

(b) Reimbursements will be issued by the Director within 30 days following the report filing period.

(c) Reports received later than [~~30~~]60 days after the end of the [~~calendar quarter~~]semi-annual collection period for which reimbursement is requested will be paid during the next [~~quarterly~~] reimbursement period.

(d) Any reimbursement requests outside the timeframe outlined in R315-15-14.2(a) will not be granted unless approved by the Director.

KEY: grants, registration, recycling, used oil
Date of Enactment or Last Substantive Amendment: [~~September 14, 2018~~]2019
Notice of Continuation: March 10, 2016
Authorizing, and Implemented or Interpreted Law: 19-6-704; 19-6-720

Environmental Quality, Waste Management and Radiation Control, Waste Management
R315-260
Hazardous Waste Management System

NOTICE OF PROPOSED RULE
(Amendment)
DAR FILE NO.: 43526
FILED: 02/14/2019

RULE ANALYSIS

PURPOSE OF THE RULE OR REASON FOR THE CHANGE: In May of 2015, the U.S. Department of Transportation (DOT) announced a national recall of airbag inflators manufactured by Takata due to a defect which has resulted in 15 deaths and at least 250 injuries in the U.S. as of August 2018. This recall affects 19 vehicle manufactures with approximately 60,000,000 to 70,000,000 airbag inflators scheduled for recall. A Preservation Order issued by DOT in February 2015 required Takata to preserve all recalled airbag inflators. EPA issued a memorandum in June of 2017 stating that the recalled airbag inflators were not subject to hazardous waste regulations while being held under the Preservation Order. The EPA clarification states that the recalled inflators would be considered a solid waste once the order was lifted. Airbag inflators meet both the ignitability and reactivity hazardous waste characteristics and therefore, would need to be managed as a hazardous waste. In April of 2018, the Preservation Order was amended requiring Takata to keep only a certain percentage of the inflators allowing the remainder to be disposed. The amended order no longer requires affected vehicle manufacturers to send their recalled airbag inflators to Takata thus allowing the manufacturers to dispose of the inflators on their own. DOT has determined that it is imperative that the recall of these airbag inflators be accelerated because the risk of serious injury or death increases over time because the inflators become more unstable as they age and are exposed to high absolute humidity. It is believed that these rule changes will assist in facilitating the recall acceleration by exempting the collection of airbag waste from hazardous waste requirements so long as certain conditions are met. These rule changes became effective at the federal level on 11/30/2018.

SUMMARY OF THE RULE OR CHANGE: The definitions of Airbag Waste, Airbag Waste Collection Facility, and Airbag Waste Handler were added to Subsection R315-260-10(c). Subsection numbering was redone to accommodate the new definitions and some typographical errors were corrected.

STATUTORY OR CONSTITUTIONAL AUTHORIZATION FOR THIS RULE: Section 19-6-104 and Section 19-6-105 and Section 19-6-106

ANTICIPATED COST OR SAVINGS TO:
♦ THE STATE BUDGET: These rule changes will not affect the state budget because no state governmental agency is a vehicle manufacturer subject to provisions of the recall of Takata airbag inflators.
♦ LOCAL GOVERNMENTS: These rule changes will not affect any local government because no local governments are vehicle manufacturers subject to provisions of the recall of Takata airbag inflators.
♦ SMALL BUSINESSES: There are 385 car dealerships (NAICS 4411) in Utah that are small businesses that could be involved in removing and disposing of airbag inflators. These dealerships make up 80.5% of the dealerships in Utah. Most car dealerships are currently very small quantity generators of hazardous waste. With the removal of the DOT Preservation Order protections, a dealership would be required to manage the removed airbag inflators as hazardous waste which could result in dealerships becoming small quantity generators of hazardous waste. These dealerships would in turn incur the costs associated with being small quantity generators (e.g. packaging and labeling, recordkeeping, personnel training, storage, and shipping). Due to the exemptions provided by these rule changes, dealerships will not incur these costs and therefore, could see a cost savings of approximately $81.55 per year. Data to assist in making this determination was obtained from the EPA document entitled "Economic Assessment of the Safe Management of Recalled Airbags Interim Final Rule" dated October 2018.

WASTE MANAGEMENT AND RADIATION CONTROL BOARD
Executive Summary
Final Adoption
UAC R313-28-31, Use of X-Rays in the Healing Arts, General and Administrative Requirements
April 11, 2019

What is the issue before the Board?	Final approval from the Board is needed to adopt changes to UAC R313-28-31 allowing the use of low dose, whole body scanners used for security purposes in correctional facilities.
What is the historical background or context for this issue?	At the Board meeting on February 14, 2019, the Board approved the proposed changes to UAC R313-28-31 to be filed with the Office of Administrative Rules for publication in the Utah State Bulletin. The proposed rule changes were published in the March 1, 2019 issue of the Utah State Bulletin (Vol. 2019, No. 5). The public comment period for this rulemaking ended on April 1, 2019. No comments were received. Selected pages from the Utah State Bulletin showing the publication of the propose changes follow this Executive Summary.
What is the governing statutory or regulatory citation?	The Board is authorized under Subsection 19-6-104 to make rules that are necessary to implement the provision of the Radiation Control Act. The rule changes also meet existing DEQ and state rulemaking procedures.
Is Board action required?	Yes. Board approval for final adoption of the rule changes is necessary.
What is the Division Director's recommendation?	The Director recommends the Board approve final adoption of the rule changes to UAC R313-28-31 as published in the March 1, 2019 issue of the Utah State Bulletin and set an effective date of April 15, 2019.
Where can more information be obtained?	Please contact Tom Ball at (801) 536-0251, (tball@utah.gov) or Rusty Lundberg (801) 536-4257, (rlundberg@utah.gov).

DSHW-2019-003028
Attachment: DSHW-2019-003027

UTAH STATE BULLETIN

OFFICIAL NOTICES OF UTAH STATE GOVERNMENT
Filed February 02, 2019, 12:00 a.m. through February 15, 2019, 11:59 p.m.

Number 2019-5
March 01, 2019

Nancy L. Lancaster, Managing Editor

The *Utah State Bulletin (Bulletin)* is an official noticing publication of the executive branch of Utah state government. The Office of Administrative Rules, part of the Department of Administrative Services, produces the *Bulletin* under authority of Section 63G-3-402.

The Portable Document Format (PDF) version of the *Bulletin* is the official version. The PDF version of this issue is available at httsp://rules.utah.gov/. Any discrepancy between the PDF version and other versions will be resolved in favor of the PDF version.

Inquiries concerning the substance or applicability of an administrative rule that appears in the *Bulletin* should be addressed to the contact person for the rule. Questions about the *Bulletin* or the rulemaking process may be addressed to: Office of Administrative Rules, PO Box 141007, Salt Lake City, Utah 84114-1007, telephone 801-538-3003. Additional rulemaking information and electronic versions of all administrative rule publications are available at https://rules.utah.gov/.

The information in this *Bulletin* is summarized in the *Utah State Digest (Digest)* of the same volume and issue number. The *Digest* is available by e-mail subscription or online. Visit https://rules.utah.gov/ for additional information.

Office of Administrative Rules, Salt Lake City 84114

Utah state bulletin.
Semimonthly.
1. Delegated legislation--Utah--Periodicals. 2. Administrative procedure--Utah--Periodicals.
I. Utah. Office of Administrative Rules.

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R277-704-2. Definitions.

(1) "Content Specialist" means the same as the term is defined in Subsection R277-520-1(1).

(2) "End of course assessment" means an online end of course assessment for students who take the general financial literacy course.

(3) "Endorsement" means the licensing document required by the board for teachers who teach general financial literacy.

(4) "Financial and economic literacy project" means a program or series of activities developed locally to implement financial and economic literacy education as described in Section 53E-3-505.

(5) "Financial and economic literacy student passport" means a collection of approved activities, assessments, or achievements completed during a given time period which indicate advancement in financial and economic understanding.

(6) "LEA" for purposes of this rule, includes the Utah Schools for the Deaf and the Blind.

(7) "Professional development" means the same as the term defined in Subsection R277-522-2(10).

R277-704-3. Financial and Economic Literacy Student Passport.

(1) The Superintendent shall develop and promote a financial and economic literacy student passport that includes tracking a student's progress.

(2) The Superintendent shall include parent and community participation on the development of the student passport described in Subsection (1).

(3) The first round of implementation of the financial and economic literacy student passport shall be for students in grades nine through 12.

(4) The Superintendent shall provide a financial and economic literacy student passport to support educators as they educate students and their parents of the importance of financial and economic literacy, including its applicability to other subject areas.

(5) An LEA shall provide parents and students with the following:

(a) a financial and economic literacy passport and information about post-secondary education savings options; and

(b) information about the financial and economic literacy student passport opportunity as part of the student's plan for college and career readiness.

R277-704-4. General Financial Literacy End of Course Assessment.

(1) The Superintendent shall provide an LEA with an end of course assessment for general financial literacy which shall be:

(a) administered to every student who takes the general financial literacy course;

(b) aligned with general financial literacy revised core standards and objectives; and

(c) measured and analyzed at the school, district, and state-wide levels.

R277-704-5. General Financial Literacy Teacher Endorsement.

(1) A Board licensed educator who teaches general financial literacy is required to have licensing, endorsements, and other credentials equal to other content specialists as described in Section R277-520-4.

(2) An educator's course work may be part of or in addition to course work and programs of study required for licensure by the Board consistent with R277-502.

R277-704-6. Financial and Economic Literacy Professional Development Opportunities.

(1) The Superintendent shall provide professional development for all areas of financial and economic literacy utilizing the expertise of community and business groups.

(2) Professional development activities shall:

(a) provide information about financial and economic literacy including personal finance and economic responsibility;

(c) provide resources for teaching financial and economic literacy without promoting specific products or businesses; and

(d) work with the Superintendent to develop strategies for promoting financial and economic literacy.

R277-704-7. Financial and Economic Literacy Taskforce.

(1) The financial and economic literacy taskforce shall have the membership and general responsibilities outlined in Subsection 53E-3-505(3).

(2) In addition to the responsibilities outlined in Subsection 53E-3-505(3), the financial and economic literacy taskforce shall:

(a) analyze data provided by the Superintendent that includes:

(i) aggregated-school level proficiency results from the end of course assessment;

(ii) general enrollment data;

(iii) assessment of general financial literacy education quality; and

(iv) other relevant data to inform strategies for strengthening financial literacy proficiency; and

(b) serve as the writing committee for the financial literacy course standards described in Subsection 53E-4-204(1)(b), (3), and (4).

(3) The course standards described in Subsection (2)(b) are subject to the same approval requirements described in Subsection 53E-4-202(4).

KEY: financial, economics, literacy
Date of Enactment or Last Substantive Amendment: [~~October 9, 2014~~]2019
Notice of Continuation: November 5, 2018
Authorizing, and Implemented or Interpreted Law: Art X Sec 3; 53G-3-505; 53E-3-401(4)

Environmental Quality, Waste Management and Radiation Control, Radiation

R313-28-31

General and Administrative Requirements

NOTICE OF PROPOSED RULE

(Amendment)
DAR FILE NO.: 43530
FILED: 02/15/2019

RULE ANALYSIS

PURPOSE OF THE RULE OR REASON FOR THE CHANGE: Section R313-28-31 currently prohibits the exposure of individuals to x-rays except for healing arts purposes when the exposure has been specifically ordered and authorized by a licensed individual. In 2014, the Waste Management and Radiation Control, Radiation (Division) learned that jails and prisons were beginning to use low dose, whole body scanners for security purposes when two were registered in Utah. Since that time, an additional five units have been registered. While not a healing arts purpose, the Division considers this a legitimate use of x-ray equipment. Due to the prohibition in the rules, the Waste Management and Radiation Control Board must issue an exemption in accordance with Section R313-12-55 for each of these units. Because the Division considers this use to be legitimate and due to the increasing numbers of the units being registered, it has been determined that an exemption written into rule would be more efficient versus having the Waste Management and Radiation Control Board issue an exemption for each individual unit as they are registered.

SUMMARY OF THE RULE OR CHANGE: Subsection R315-28-31(2)(f)(i) is being amended except the use of low dose, whole body scanners used for security purposes in correctional facilities from the prohibited uses of x-rays.

STATUTORY OR CONSTITUTIONAL AUTHORIZATION FOR THIS RULE: Section 19-3-104 and Section 19-6-104 and Section 19-6-107

ANTICIPATED COST OR SAVINGS TO:
♦ THE STATE BUDGET: There will be no cost or savings to the state due to this amendment because the amendment does not exempt these types of units from annual registration and periodic inspections. The seven units already registered currently pay the annual registration fee of $35 per unit and inspection fees of $75 per unit when inspected. New units will still be required to register and pay the annual registration fee, be inspected every five years, and pay the inspection fee. It is not possible to determine how many new units will be registered.
♦ LOCAL GOVERNMENTS: There will be no cost or savings to local governments due to this amendment because the amendment does not exempt these types of units from annual registration and periodic inspections. The seven units already registered currently pay the annual registration fee of $35 per unit and inspection fees of $75 per unit when inspected. New units will still be required to register and pay the annual registration fee, be inspected every five years, and pay the inspection fee. It is not possible to determine how many new units will be registered.
♦ SMALL BUSINESSES: There will be no cost or savings to small businesses due to this amendment because the amended rule applies only to low dose, whole body scanners used at correctional facilities and based on a review of available data the Division is not aware of any small businesses operating correctional facilities in Utah.
♦ PERSONS OTHER THAN SMALL BUSINESSES, BUSINESSES, OR LOCAL GOVERNMENTAL ENTITIES: There will be no cost or savings to persons other than small businesses, businesses, or local government entities due to this amendment because the amended rule applies only to low dose, whole body scanners used at correctional facilities and based on a review of available data the Division is not aware of any persons other than small businesses, businesses, or local government entities operating correctional facilities in Utah.

COMPLIANCE COSTS FOR AFFECTED PERSONS: There should be no additional compliance costs for affected persons because the amended rule simply allows for the use of low dose, whole body scanners for something other than the healing arts. It does not exempt facilities from the requirement to register x-ray units, or to have them inspected and pay the appropriate fees associated with these activities.

COMMENTS BY THE DEPARTMENT HEAD ON THE FISCAL IMPACT THE RULE MAY HAVE ON BUSINESSES: It is not anticipated that adoption of this rule amendment will have any fiscal impact on businesses because the amendment affects correctional facilities only, and based on a review of available data the Department is not aware of any businesses that operate correctional facilities in Utah.

THE FULL TEXT OF THIS RULE MAY BE INSPECTED, DURING REGULAR BUSINESS HOURS, AT:
ENVIRONMENTAL QUALITY
WASTE MANAGEMENT AND RADIATION
CONTROL, RADIATION
SECOND FLOOR
195 N 1950 W
SALT LAKE CITY, UT 84116-4880
or at the Office of Administrative Rules.

DIRECT QUESTIONS REGARDING THIS RULE TO:
♦ Rusty Lundberg by phone at 801-536-4257, by FAX at 801-536-0222, or by Internet E-mail at rlundberg@utah.gov
♦ Thomas Ball by phone at 801-536-0251, or by Internet E-mail at tball@utah.gov

INTERESTED PERSONS MAY PRESENT THEIR VIEWS ON THIS RULE BY SUBMITTING WRITTEN COMMENTS NO LATER THAN AT 5:00 PM ON 04/01/2019

THIS RULE MAY BECOME EFFECTIVE ON: 04/15/2019

AUTHORIZED BY: Alan Matheson, Executive Director

Appendix 1: Regulatory Impact Summary Table*

Fiscal Costs	**FY 2019**	**FY 2020**	**FY 2021**
State Government	$0	$0	$0
Local Government	$0	$0	$0
Small Businesses	$0	$0	$0
Non-Small Businesses	$0	$0	$0
Other Person	$0	$0	$0
Total Fiscal Costs:	**$0**	**$0**	**$0**
Fiscal Benefits			
State Government	$0	$0	$0
Local Government	$0	$0	$0
Small Businesses	$0	$0	$0
Non-Small Businesses	$0	$0	$0
Other Persons	$0	$0	$0
Total Fiscal Benefits:	**$0**	**$0**	**$0**
Net Fiscal Benefits:	**$0**	**$0**	**$0**

***This table only includes fiscal impacts that could be measured. If there are inestimable fiscal impacts, they will not be included in this table. Inestimable impacts for State Government, Local Government, Small Businesses and Other Persons are described in the narrative. Inestimable impacts for Non-Small Businesses are described in Appendix 2.**

Appendix 2: Regulatory Impact to Non-Small Businesses
Based on a review of available data, the Department of Environmental Quality is not aware of any non-small businesses in Utah that operate correctional facilities that would be impacted by this rule amendment. Therefore, it is not believed that the amendment will have any impact on non-small businesses.

The head of the Department of Environmental Quality, Alan Matheson, has reviewed and approved this fiscal analysis.

R313. Environmental Quality, Waste Management and Radiation Control, Radiation.
R313-28. Use of X-Rays in the Healing Arts.
R313-28-31. General and Administrative Requirements.

(1) Persons shall not make, sell, lease, transfer, lend, or install x-ray equipment or the accessories used in connection with x-ray equipment unless the accessories and equipment, when properly placed in operation and properly used, will meet the applicable requirements of these rules.

(a) X-ray equipment shall be FDA approved for use in the United States and shall be certified in accordance with 21 CFR 1010.2 and identified in accordance with 21 CFR 1010.3.

(2) The registrant shall be responsible for directing the operation of the x-ray machines which are under the registrant's administrative control. The registrant or registrant's agent shall assure that the requirements of R313-28-31(2)(a) through R313-28-31(2)(i) are met in the operation of the x-ray machines.

(a) An x-ray machine which does not meet the provisions of these rules shall not be operated for diagnostic purposes, when directed by the Director.

(b) Individuals who will be operating the x-ray equipment shall be instructed in the registrant's written radiation safety program and be qualified in the safe use of the equipment. Required operator qualifications are listed in R313-28-350.

(c) The registrant of a facility shall create and make available to x-ray operators written safety procedures, including patient holding and restrictions of the operating technique required for the safe operation of the x-ray systems. Individuals who operate x-ray systems shall be responsible for complying with these rules.

(d) Except for individuals who cannot be moved out of the room and the patient being examined, only the staff and ancillary personnel or other individuals needed for the medical procedure or training shall be present in the room during the radiographic exposure and shall be positioned as follows:

(i) individuals other than the patient shall be positioned so that no part of the body will be struck by the useful beam unless protected by not less than 0.5 mm lead equivalent material;

(ii) the x-ray operator, other staff, ancillary personnel and other individuals needed for the medical procedure shall be protected from primary beam scatter by protective aprons or barriers unless it can be shown that by virtue of distances employed, EXPOSURE levels are reduced to the limits specified in R313-15-201; and

(iii) patients who are not being examined and cannot be removed from the room shall be protected from the primary beam scatter by whole body protective barriers of not less than 0.25 mm lead equivalent material or shall be so positioned that the nearest portion of the body is at least two meters from both the tube head and nearest edge of the image receptor.

(e) For patients who have not passed reproductive age, gonad shielding of not less than 0.5 mm lead equivalent material shall be used during radiographic procedures in which the gonads are in the useful beam, except for cases in which this would interfere with the diagnostic procedure.

(f) Individuals shall be exposed to the useful beam for healing arts purposes only when the exposure has been specifically ordered and authorized by a licensed practitioner of the healing arts after a medical consultation. Deliberate exposures for the following purposes are prohibited:

(i) exposure of an individual for training, demonstration or other non-healing arts purposes except for low dose, whole body scanners used for security purposes in correctional facilities; and

(ii) exposure of an individual for the purpose of healing arts screening except as authorized by R313-28-31(2)(i).

(g) When a patient or film must be provided with auxiliary support during a radiation exposure:

(i) mechanical holding devices shall be used when the technique permits. The written procedures, required by R313-28-31(2)(c), shall list individual projections where mechanical holding devices can be utilized;

(ii) written safety procedures, as required by R313-28-31(2)(c), shall indicate the requirements for selecting an individual to hold patients or films and the procedure that individual shall follow;

(iii) the individual holding patients or films during radiographic examinations shall be instructed in personal radiation safety and protected as required by R313-28-31(2)(d)(i);

(iv) Individuals shall not be used routinely to hold film or patients;

(v) In those cases where the patient must hold the film, except during intraoral examinations, portions of the body other than the area of clinical interest struck by the useful beam shall be protected by not less than 0.5 mm lead equivalent material; and

(vi) Facilities shall have protective aprons and gloves available in sufficient numbers to provide protection to personnel who are involved with x-ray operations and who are otherwise not shielded.

(h) Personnel monitoring. Individuals who are associated with the operation of an x-ray system are subject to the applicable requirements of R313-15.

(i) Healing arts screening. Persons proposing to conduct a healing arts screening program shall not initiate the program without prior approval of the Director. When requesting approval, that person shall submit the information outlined in R313-28-400. If information submitted becomes invalid or outdated, the Director shall be notified immediately.

(3) Maintenance of records and information. The registrant shall maintain at least the following information for each x-ray machine:

(a) model numbers of major components;

(b) record of surveys or calculations to demonstrate compliance with R313-15-302, calibration, maintenance and modifications performed on the x-ray machine; and

(c) a shielding design report for the x-ray suite which states assumed values for workload and use factors and includes a drawing of surrounding areas showing assumed values for occupancy factors.

(4) X-ray records. Facilities shall maintain an x-ray record containing the patient's name, the types of examinations, and the dates the examinations were performed. When the patient or film must be provided with human auxiliary support, the name of the human holder shall be recorded. The registrant shall retain these records for three years after the record is made.

(5) Portable or mobile equipment shall be used only for examinations where it is impractical to transfer the patient to a stationary radiographic installation.

(6) Hand-held medical x-ray systems. X-ray equipment designed to be hand-held shall comply with Section R313-28-31, excluding Subsection R313-28-31(5), and R313-28-52, excluding Subsections R313-28-52(8)(b)(i) and (ii).

(a) When operating hand-held equipment for which it is not possible for the operator to remain at least six feet from the x-ray machine during x-ray exposure, protective aprons of at least 0.5 millimeter lead equivalence shall be provided for the operator to protect the operator's torso and gonads from backscatter radiation;

(b) In addition to the dose limits in R313-15-301, operators of hand-held x-ray equipment shall ensure that members of the public that may be exposed to scatter radiation or primary beam transmission from the hand-held device are not exposed above 2 milliroentgen per hour;

(i) Operators will ensure that members of the public likely to be exposed to greater than 2 milliroentgen per hour will be provided protective aprons of at least 0.5 millimeter lead equivalence or are moved to a distance such that the exposure rate to the individual is below 2 milliroentgen per hour; and

(c) In addition to the requirements of Subsection R313-28-350(1), each operator of hand-held x-ray equipment shall complete the training program supplied by the manufacturer prior to using the x-ray unit. Records of training shall be maintained on file for examination by an authorized representative of the Director.

(7) Procedures and auxiliary equipment designed to minimize patient and personnel exposure commensurate with the needed diagnostic information shall be utilized.

(a) The speed of the screen and film combinations used shall be the fastest speed consistent with the diagnostic objective of the examinations. Film cassettes without intensifying screens shall not be used for routine diagnostic radiological imaging, with the exception of standard film packets for intra-oral use in dental radiography. If the requirements of R313-28-31(6)(a) cannot be met, an exemption may be requested pursuant to R313-12-55.

(b) The radiation exposure to the patient shall be the minimum exposure required to produce images of good diagnostic quality.

(c) X-ray systems, other than fluoroscopic, computed tomography, dental or veterinary units, shall not be utilized in procedures where the source to patient distance is less than 30 centimeters.

KEY: dental, X-rays, mammography, beam limitation
Date of Enactment or Last Substantive Amendment: [~~2018~~]2019
Notice of Continuation: July 1, 2016
Authorizing, and Implemented or Interpreted Law: 19-3-104; 19-6-107

WASTE MANAGEMENT AND RADIATION CONTROL BOARD
Executive Summary
Final Adoption
UAC R315-260, Hazardous Waste Management System,
UAC R315-261, General Requirements -- Identification and Listing of Hazardous Waste,
UAC R315-262, Hazardous Waste Generator Requirements
April 11, 2019

What is the issue before the Board?	Final approval from the Board is needed to adopt changes to R315-260, R315-261 and R315-262 of the hazardous waste rules to incorporate federal regulatory changes promulgated by the Environmental Protection Agency. The changes will assist in facilitating the recall of airbag inflators by exempting the collection of airbag waste from hazardous waste requirements so long as certain conditions are met.
What is the historical background or context for this issue?	At the Board meeting on February 14, 2019, the Board approved the proposed changes to R315-260, R315-261 and R315-262 to be filed with the Office of Administrative Rules for publication in the Utah State Bulletin. The proposed rule changes were published in the March 1, 2019 issue of the Utah State Bulletin (Vol. 2019, No. 5). The public comment period for this rulemaking ended on April 1, 2019. No comments were received. Selected pages from the Utah State Bulletin showing the publication of the proposed changes follow this Executive Summary.
What is the governing statutory or regulatory citation?	The Board is authorized under Subsection 19-6-105(1)(c) to make rules governing generators and transporters of hazardous wastes and owners and operators of hazardous waste treatment, storage and disposal facilities. The rule changes also meet existing DEQ and state rulemaking procedures.
Is Board action required?	Yes. Board approval for final adoption of the rule changes is necessary.
What is the Division Director's recommendation?	The Director recommends the Board approve final adoption of the rule changes to R315-260, R315-261 and R315-262 as published in the March 1, 2019 issue of the Utah State Bulletin and set an effective date of April 15, 2019.
Where can more information be obtained?	Please contact Tom Ball (801) 536-0251, (tball@utah.gov) or Rusty Lundberg (801) 536-4257, (rlundberg@utah.gov).

DSHW-2019-003024
Attachment: DSHW-2019-003023

UTAH STATE BULLETIN

OFFICIAL NOTICES OF UTAH STATE GOVERNMENT
Filed February 02, 2019, 12:00 a.m. through February 15, 2019, 11:59 p.m.

Number 2019-5
March 01, 2019

Nancy L. Lancaster, Managing Editor

The *Utah State Bulletin (Bulletin)* is an official noticing publication of the executive branch of Utah state government. The Office of Administrative Rules, part of the Department of Administrative Services, produces the *Bulletin* under authority of Section 63G-3-402.

The Portable Document Format (PDF) version of the *Bulletin* is the official version. The PDF version of this issue is available at httsp://rules.utah.gov/. Any discrepancy between the PDF version and other versions will be resolved in favor of the PDF version.

Inquiries concerning the substance or applicability of an administrative rule that appears in the *Bulletin* should be addressed to the contact person for the rule. Questions about the *Bulletin* or the rulemaking process may be addressed to: Office of Administrative Rules, PO Box 141007, Salt Lake City, Utah 84114-1007, telephone 801-538-3003. Additional rulemaking information and electronic versions of all administrative rule publications are available at https://rules.utah.gov/.

The information in this *Bulletin* is summarized in the *Utah State Digest (Digest)* of the same volume and issue number. The *Digest* is available by e-mail subscription or online. Visit https://rules.utah.gov/ for additional information.

Office of Administrative Rules, Salt Lake City 84114

Utah state bulletin.
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I. Utah. Office of Administrative Rules.

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14.2 REIMBURSEMENT PROCEDURES

In order for DIYer collection centers to qualify for the recycling incentive payment they are required to comply with the following procedures.

(a) Submit a copy of all records [~~and receipts~~]of DIYer and farmer, as defined in R315-15-2.1(a)(4), used oil collected during [~~the quarter~~]the semi-annual collection periods of January through June and July through December for which the reimbursement is requested. These records shall be submitted within 30 days following the end of the [~~calendar quarter~~]semi-annual collection period[~~ in which the DIYer oil was collected and for which reimbursement is requested~~].

(b) Reimbursements will be issued by the Director within 30 days following the report filing period.

(c) Reports received later than [~~30~~]60 days after the end of the [~~calendar quarter~~]semi-annual collection period for which reimbursement is requested will be paid during the next [~~quarterly~~] reimbursement period.

(d) Any reimbursement requests outside the timeframe outlined in R315-15-14.2(a) will not be granted unless approved by the Director.

KEY: grants, registration, recycling, used oil
Date of Enactment or Last Substantive Amendment: [~~September 14, 2018~~]2019
Notice of Continuation: March 10, 2016
Authorizing, and Implemented or Interpreted Law: 19-6-704; 19-6-720

Environmental Quality, Waste Management and Radiation Control, Waste Management
R315-260
Hazardous Waste Management System

NOTICE OF PROPOSED RULE
(Amendment)
DAR FILE NO.: 43526
FILED: 02/14/2019

RULE ANALYSIS

PURPOSE OF THE RULE OR REASON FOR THE CHANGE: In May of 2015, the U.S. Department of Transportation (DOT) announced a national recall of airbag inflators manufactured by Takata due to a defect which has resulted in 15 deaths and at least 250 injuries in the U.S. as of August 2018. This recall affects 19 vehicle manufactures with approximately 60,000,000 to 70,000,000 airbag inflators scheduled for recall. A Preservation Order issued by DOT in February 2015 required Takata to preserve all recalled airbag inflators. EPA issued a memorandum in June of 2017 stating that the recalled airbag inflators were not subject to hazardous waste regulations while being held under the Preservation Order. The EPA clarification states that the recalled inflators would be considered a solid waste once the order was lifted. Airbag inflators meet both the ignitability and reactivity hazardous waste characteristics and therefore, would need to be managed as a hazardous waste. In April of 2018, the Preservation Order was amended requiring Takata to keep only a certain percentage of the inflators allowing the remainder to be disposed. The amended order no longer requires affected vehicle manufacturers to send their recalled airbag inflators to Takata thus allowing the manufacturers to dispose of the inflators on their own. DOT has determined that it is imperative that the recall of these airbag inflators be accelerated because the risk of serious injury or death increases over time because the inflators become more unstable as they age and are exposed to high absolute humidity. It is believed that these rule changes will assist in facilitating the recall acceleration by exempting the collection of airbag waste from hazardous waste requirements so long as certain conditions are met. These rule changes became effective at the federal level on 11/30/2018.

SUMMARY OF THE RULE OR CHANGE: The definitions of Airbag Waste, Airbag Waste Collection Facility, and Airbag Waste Handler were added to Subsection R315-260-10(c). Subsection numbering was redone to accommodate the new definitions and some typographical errors were corrected.

STATUTORY OR CONSTITUTIONAL AUTHORIZATION FOR THIS RULE: Section 19-6-104 and Section 19-6-105 and Section 19-6-106

ANTICIPATED COST OR SAVINGS TO:
♦ THE STATE BUDGET: These rule changes will not affect the state budget because no state governmental agency is a vehicle manufacturer subject to provisions of the recall of Takata airbag inflators.
♦ LOCAL GOVERNMENTS: These rule changes will not affect any local government because no local governments are vehicle manufacturers subject to provisions of the recall of Takata airbag inflators.
♦ SMALL BUSINESSES: There are 385 car dealerships (NAICS 4411) in Utah that are small businesses that could be involved in removing and disposing of airbag inflators. These dealerships make up 80.5% of the dealerships in Utah. Most car dealerships are currently very small quantity generators of hazardous waste. With the removal of the DOT Preservation Order protections, a dealership would be required to manage the removed airbag inflators as hazardous waste which could result in dealerships becoming small quantity generators of hazardous waste. These dealerships would in turn incur the costs associated with being small quantity generators (e.g. packaging and labeling, recordkeeping, personnel training, storage, and shipping). Due to the exemptions provided by these rule changes, dealerships will not incur these costs and therefore, could see a cost savings of approximately $81.55 per year. Data to assist in making this determination was obtained from the EPA document entitled "Economic Assessment of the Safe Management of Recalled Airbags Interim Final Rule" dated October 2018.

♦ PERSONS OTHER THAN SMALL BUSINESSES, BUSINESSES, OR LOCAL GOVERNMENTAL ENTITIES: It is anticipated that if there are any persons other than small businesses, businesses, or local governments that are involved in removing airbag inflators these persons would see a cost savings with the adoption of these rule changes. However, the data is not available and would be too costly to acquire in order to be able to make a determination as to who these persons are and what the fiscal impact could be, if any.

COMPLIANCE COSTS FOR AFFECTED PERSONS: It is anticipated that there will be no additional compliance costs for affected persons due to the adoption of these rule changes because these changes exempt persons removing airbag inflators from having to comply with several provisions that already exist in rule thus reducing the cost of compliance.

COMMENTS BY THE DEPARTMENT HEAD ON THE FISCAL IMPACT THE RULE MAY HAVE ON BUSINESSES: It is not anticipated that these rule changes will have a negative fiscal impact on any business involved in the removal of airbag inflators. Most car dealerships are currently very small quantity generators of hazardous waste. With the removal of the DOT Preservation Order protections, a dealership would be required to manage the removed airbag inflators as hazardous waste which could result in dealerships becoming small quantity generators of hazardous waste. These dealerships would in turn incur the costs associated with being small quantity generators (e.g. packaging and labeling, recordkeeping, personnel training, storage, and shipping). It is believed that these rule changes will assist in accelerating the removal of these dangerous airbag inflators. This is accomplished by exempting those businesses involved in the removal of airbag inflators from several of the regulatory requirements which results in a cost savings to those businesses.

THE FULL TEXT OF THIS RULE MAY BE INSPECTED, DURING REGULAR BUSINESS HOURS, AT:

ENVIRONMENTAL QUALITY
WASTE MANAGEMENT AND RADIATION
CONTROL, WASTE MANAGEMENT
SECOND FLOOR
195 N 1950 W
SALT LAKE CITY, UT 84116-3097
or at the Office of Administrative Rules.

DIRECT QUESTIONS REGARDING THIS RULE TO:
♦ Rusty Lundberg by phone at 801-536-4257, by FAX at 801-536-0222, or by Internet E-mail at rlundberg@utah.gov
♦ Thomas Ball by phone at 801-536-0251, or by Internet E-mail at tball@utah.gov

INTERESTED PERSONS MAY PRESENT THEIR VIEWS ON THIS RULE BY SUBMITTING WRITTEN COMMENTS NO LATER THAN AT 5:00 PM ON 04/01/2019

THIS RULE MAY BECOME EFFECTIVE ON: 04/15/2019

AUTHORIZED BY: Alan Matheson, Executive Director

Appendix 1: Regulatory Impact Summary Table*

Fiscal Costs	**FY 2019**	**FY 2020**	**FY 2021**
State Government	$0	$0	$0
Local Government	$0	$0	$0
Small Businesses	$0	$0	$0
Non-Small Businesses	$0	$0	$0
Other Person	$0	$0	$0
Total Fiscal Costs:	**$0**	**$0**	**$0**
Fiscal Benefits			
State Government	$0	$0	$0
Local Government	$0	$0	$0
Small Businesses	$31,395	$31,395	$31,395
Non-Small Businesses	$7,605	$7,605	$7,605
Other Persons	$0	$0	$0
Total Fiscal Benefits:	**$39,000**	**$39,000**	**$39,000**
Net Fiscal Benefits:	**$39,000**	**$39,000**	**$39,000**

***This table only includes fiscal impacts that could be measured. If there are inestimable fiscal impacts, they will not be included in this table. Inestimable impacts for State Government, Local Government, Small Businesses and Other Persons are described in the narrative. Inestimable impacts for Non-Small Businesses are described in Appendix 2.**

Appendix 2: Regulatory Impact to Non-Small Businesses
There are 75 car dealerships (NAICS 4411) in Utah that are non-small businesses. These dealerships make up 19.5% of the dealerships in Utah. Most car dealerships are currently very small quantity generators of hazardous waste. With the removal of the DOT Preservation Order protections, a dealership would be required to manage the removed airbag inflators as hazardous waste which could result in dealerships becoming small quantity generators of hazardous waste. These dealerships would in turn incur the costs associated with being small quantity generators (e.g. packaging and labeling, recordkeeping, personnel training, storage and shipping). Due to the

exemptions provided by this rule change, dealerships will not incur these costs and therefore, could see a cost savings of approximately $101.40 per year.

Data to assist in making this determination was obtained from the EPA document entitled "Economic Assessment of the Safe Management of Recalled Airbags Interim Final Rule" dated October 2018.

The head of the Department of Environmental Quality, Alan Matheson, has reviewed and approved this fiscal analysis.

R315. Environmental Quality, Waste Management and Radiation Control, Waste Management.
R315-260. Hazardous Waste Management System.
R315-260-10. Definitions.

(a) Terms used in Rules R315-15, R315-260 through 266, R315-268, R315-270, R315-273, and Rule R315-101 are defined in Sections 19-1-103 and 19-6-102.

(b) Terms used in Rule R315-15 are also defined in Sections 19-6-703 and 19-6-706(b).

(c) Additional terms used in Rules R315-260 through 266, R315-268, R315-270, R315-273, and Rule R315-101 are defined as follows:

(1) "Above ground tank" means a device meeting the definition of "tank" in Section R315-260-10 and that is situated in such a way that the entire surface area of the tank is completely above the plane of the adjacent surrounding surface and the entire surface area of the tank, including the tank bottom, is able to be visually inspected.

(2) "Acute hazardous waste" means hazardous wastes that meet the listing criteria in Subsection R315-261-11(a)(2) and therefore are either listed in Section R315-261-31 with the assigned hazard code of (H) or are listed in Subsection R315-261-33(e).

(3) "Active life" of a facility means the period from the initial receipt of hazardous waste at the facility until the Director receives certification of final closure.

(4) "Active portion" means that portion of a facility where treatment, storage, or disposal operations are being or have been conducted after November 19, 1980 and which is not a closed portion. See also "closed portion" and "inactive portion."

(5) "Airbag waste" means any hazardous waste airbag modules or hazardous waste airbag inflators.

(6) "Airbag waste collection facility" means any facility that receives airbag waste from airbag handlers subject to regulation under Subsection R315-261-4(j), and accumulates the waste for more than ten days.

(7) "Airbag waste handler" means any person, by site, who generates airbag waste that is subject to regulation under Rules R315-260 through 266, R315-268, R315-270, and R315-273.

[~~(5)~~](8) "Approved hazardous waste management facility" or "approved facility" means a hazardous waste treatment, storage, or disposal facility which has received an EPA permit in accordance with federal requirements, has been approved under Section 19-6-108 and Rule R315-270, or has been permitted or approved under any other EPA authorized hazardous waste state program.

[~~(6)~~](9) "Ancillary equipment" means any device including, but not limited to, such devices as piping, fittings, flanges, valves, and pumps, that is used to distribute, meter, or control the flow of hazardous waste from its point of generation to a storage or treatment tank(s), between hazardous waste storage and treatment tanks to a point of disposal onsite, or to a point of shipment for disposal off-site.

[~~(7)~~](10) "Aquifer" means a geologic formation, group of formations, or part of a formation capable of yielding a significant amount of ground water to wells or springs.

[~~(8)~~](11) "Authorized representative" means the person responsible for the overall operation of a facility or an operational unit, i.e., part of a facility, e.g., the plant manager, superintendent or person of equivalent responsibility.

[~~(9)~~](12) "Battery" means a device consisting of one or more electrically connected electrochemical cells which is designed to receive, store, and deliver electric energy. An electrochemical cell is a system consisting of an anode, cathode, and an electrolyte, plus such connections, electrical and mechanical, as may be needed to allow the cell to deliver or receive electrical energy. The term battery also includes an intact, unbroken battery from which the electrolyte has been removed.

[~~(10)~~](13) "Boiler" means an enclosed device using controlled flame combustion and having the following characteristics:

(i)(A) The unit shall have physical provisions for recovering and exporting thermal energy in the form of steam, heated fluids, or heated gases; and

(B) The unit's combustion chamber and primary energy recovery sections(s) shall be of integral design. To be of integral design, the combustion chamber and the primary energy recovery section(s), such as waterwalls and superheaters, shall be physically formed into one manufactured or assembled unit. A unit in which the combustion chamber and the primary energy recovery section(s) are joined only by ducts or connections carrying flue gas is not integrally designed; however, secondary energy recovery equipment, such as economizers or air preheaters, need not be physically formed into the same unit as the combustion chamber and the primary energy recovery section. The following units are not precluded from being boilers solely because they are not of integral design: process heaters, units that transfer energy directly to a process stream, and fluidized bed combustion units; and

(C) While in operation, the unit shall maintain a thermal energy recovery efficiency of at least 60 percent, calculated in terms of the recovered energy compared with the thermal value of the fuel; and

(D) The unit shall export and utilize at least 75 percent of the recovered energy, calculated on an annual basis. In this calculation, no credit shall be given for recovered heat used internally in the same unit. Examples of internal use are the preheating of fuel or combustion air, and the driving of induced or forced draft fans or feedwater pumps; or

(ii) The unit is one which the Board has determined, on a case-by-case basis, to be a boiler, after considering the standards in Section R315-260-32

[~~(11)~~](14) "Carbon dioxide stream" means carbon dioxide that has been captured from an emission source, e.g., power plant, plus incidental associated substances derived from the source materials and the capture process, and any substances added to the stream to enable or improve the injection process.

[~~(12)~~](15) "Carbon regeneration unit" means any enclosed thermal treatment device used to regenerate spent activated carbon.

[~~(13)~~](16) "Cathode ray tube" or "CRT" means a vacuum tube, composed primarily of glass, which is the visual or video display component of an electronic device. A used, intact CRT means a CRT whose vacuum has not been released. A used, broken CRT means glass removed from its housing or casing whose vacuum has been released.

[~~(14)~~](17) "Central accumulation area" means any on-site hazardous waste accumulation area with hazardous waste accumulating in units subject to either Section R315-262-16, for small quantity generators, or Section R315-262-17, for large quantity generators. A central accumulation area at an eligible academic entity that chooses to operate under Sections R315-262-200 through 216 is also subject to Section R315-262-211 when accumulating unwanted material or hazardous waste, or both.

[~~(15)~~](18) "Certification" means a statement of professional opinion based upon knowledge and belief.

[~~(16)~~](19) "Closed portion" means that portion of a facility which an owner or operator has closed in accordance with the approved facility closure plan and all applicable closure requirements. See also "active portion" and "inactive portion".

[~~(17)~~](20) "Component" means either the tank or ancillary equipment of a tank system.

[~~(18)~~](21) "Confined aquifer" means an aquifer bounded above and below by impermeable beds or by beds of distinctly lower permeability than that of the aquifer itself; an aquifer containing confined ground water.

[~~(19)~~](22) "Contained" means held in a unit, including a land-based unit as defined in R315-260-10, that meets the following criteria:

(i) The unit is in good condition, with no leaks or other continuing or intermittent unpermitted releases of the hazardous secondary materials to the environment, and is designed, as appropriate for the hazardous secondary materials, to prevent releases of hazardous secondary materials to the environment. Unpermitted releases are releases that are not covered by a permit, such as a permit to discharge to water or air, and may include, but are not limited to, releases through surface transport by precipitation runoff, releases to soil and groundwater, wind-blown dust, fugitive air emissions, and catastrophic unit failures;

(ii) The unit is properly labeled or otherwise has a system, such as a log, to immediately identify the hazardous secondary materials in the unit; and

(iii) The unit holds hazardous secondary materials that are compatible with other hazardous secondary materials placed in the unit and is compatible with the materials used to construct the unit and addresses any potential risks of fires or explosions.

(iv) Hazardous secondary materials in units that meet the applicable requirements of Rules R315-264 or 265 are presumptively contained.

[~~(20)~~](23) "Container" means any portable device in which a material is stored, transported, treated, disposed of, or otherwise handled.

[~~(21)~~](24) "Containment building" means a hazardous waste management unit that is used to store or treat hazardous waste under the provisions of Subsections R315-264-1100 through 1102 or 40 CFR 265.1100 through 1102, which are adopted and incorporated by reference.

[~~(22)~~](25) "Contingency plan" means a document setting out an organized, planned, and coordinated course of action to be followed in case of a fire, explosion, or release of hazardous waste or hazardous waste constituents which could threaten human health or the environment.

[~~(23)~~](26) "Corrosion expert" means a person who, by reason of his knowledge of the physical sciences and the principles of engineering and mathematics, acquired by a professional education and related practical experience, is qualified to engage in the practice of corrosion control on buried or submerged metal piping systems and metal tanks. Such a person shall be certified as being qualified by the National Association of Corrosion Engineers (NACE) or be a registered professional engineer who has certification or licensing that includes education and experience in corrosion control on buried or submerged metal piping systems and metal tanks.

[~~(24)~~](27) "CRT collector" means a person who receives used, intact CRTs for recycling, repair, resale, or donation.

[~~(25)~~](28) "CRT glass manufacturer" means an operation or part of an operation that uses a furnace to manufacture CRT glass.

[~~(26)~~](29) "CRT processing" means conducting all of the following activities:

(i) Receiving broken or intact CRTs; and

(ii) Intentionally breaking intact CRTs or further breaking or separating broken CRTs; and

(iii) Sorting or otherwise managing glass removed from CRT monitors.

[~~(27)~~](30) "Designated facility" means:

(i) A hazardous waste treatment, storage, or disposal facility which:

(A) Has received a permit, or interim status, in accordance with the requirements of Rule R315-270 and 124;

(B) Has received a permit, or interim status, from a State authorized in accordance with 40 CFR 271; or

(C) Is regulated under Subsection R315-261-6(c)(2) or Section R315-266-70; and

(D) That has been designated on the manifest by the generator pursuant to Section R315-262-20.

(ii) "Designated facility" also means a generator site designated on the manifest to receive its waste as a return shipment from a facility that has rejected the waste in accordance with Subsections R315-264-72(f) or 40 CFR 265.72(f), which is adopted and incorporated by reference.

(iii) If a waste is destined to a facility in an authorized State which has not yet obtained authorization to regulate that particular waste as hazardous, then the designated facility shall be a facility allowed by the receiving State to accept such waste.

[~~(28)~~](31) "Destination facility" means a facility that treats, disposes of, or recycles a particular category of universal waste, except those management activities described in Subsection R315-273-13(a) and (c) and Section R315-273-33. A facility at which a particular category of universal waste is only accumulated, is not a destination facility for purposes of managing that category of universal waste.

[~~(29)~~](32) "Dike" means an embankment or ridge of either natural or man-made materials used to prevent the movement of liquids, sludges, solids, or other materials.

[~~(30)~~](33) "Dioxins and furans (D/F)" means tetra, penta, hexa, hepta, and octa-chlorinated dibenzo dioxins and furans.

[~~(31)~~](34) "Discharge" or "hazardous waste discharge" means the accidental or intentional spilling, leaking, pumping, pouring, emitting, emptying, or dumping of hazardous waste into or on any land or water.

[~~(32)~~](35) "Disposal facility" means a facility or part of a facility at which hazardous waste is intentionally placed into or on any land or water, and at which waste will remain after closure. The term disposal facility does not include a corrective action management unit into which remediation wastes are placed.

[~~(33)~~](36) "Division" means the Division of Waste Management and Radiation Control.

[~~(34)~~](37) "Drip pad" is an engineered structure consisting of a curbed, free-draining base, constructed of non-earthen materials and designed to convey preservative kick-back or drippage from treated wood, precipitation, and surface water run-on to an associated collection system at wood preserving plants.

[~~(35)~~](38) "Elementary neutralization unit" means a device which:

(i) Is used for neutralizing wastes that are hazardous only because they exhibit the corrosivity characteristic defined in Section R315-261-22, or they are listed in Sections R315-261-30 through 35 only for this reason; and

(ii) Meets the definition of tank, tank system, container, transport vehicle, or vessel in Sections R315-260-10.

[~~(36)~~](39) "Electronic manifest, or e-Manifest" means the electronic format of the hazardous waste manifest that is obtained from EPA's national e-Manifest system and transmitted electronically to the system, and that is the legal equivalent of EPA Forms 8700-22, Manifest, and 8700-22A, Continuation Sheet.

[~~(37)~~](40) "Electronic Manifest System, or e-Manifest System" means EPA's national information technology system through which the electronic manifest may be obtained, completed, transmitted, and distributed to users of the electronic manifest and to regulatory agencies.

[~~(38)~~](41) "EPA hazardous waste number" means the number assigned by EPA to each hazardous waste listed in Sections R315-261-30 through 35 and to each characteristic identified in Sections R315-261-20 through 24.

[~~(39)~~](42) "EPA identification number" means the number assigned by EPA to each generator, transporter, and treatment, storage, or disposal facility.

[~~(40)~~](43) "EPA region" means the states and territories found in any one of the following ten regions:

(i) Region I-Maine, Vermont, New Hampshire, Massachusetts, Connecticut, and Rhode Island.

(ii) Region II-New York, New Jersey, Commonwealth of Puerto Rico, and the U.S. Virgin Islands.

(iii) Region III-Pennsylvania, Delaware, Maryland, West Virginia, Virginia, and the District of Columbia.

(iv) Region IV-Kentucky, Tennessee, North Carolina, Mississippi, Alabama, Georgia, South Carolina, and Florida.

(v) Region V-Minnesota, Wisconsin, Illinois, Michigan, Indiana and Ohio.

(vi) Region VI-New Mexico, Oklahoma, Arkansas, Louisiana, and Texas.

(vii) Region VII-Nebraska, Kansas, Missouri, and Iowa.

(viii) Region VIII-Montana, Wyoming, North Dakota, South Dakota, Utah, and Colorado.

(ix) Region IX-California, Nevada, Arizona, Hawaii, Guam, American Samoa, Commonwealth of the Northern Mariana Islands.

(x) Region X-Washington, Oregon, Idaho, and Alaska.

[~~(41)~~](44) "Equivalent method" means any testing or analytical method approved by the Director under Sections R315-260-20 and 21.

[~~(42)~~](45) "Existing hazardous waste management (HWM) facility" or "existing facility" means a facility which was in operation or for which construction commenced on or before November 19, 1980. A facility has commenced construction if:

(i) The owner or operator has obtained the Federal, State and local approvals or permits necessary to begin physical construction; and either

(ii)(A) A continuous on-site, physical construction program has begun; or

(B) The owner or operator has entered into contractual obligations-which cannot be cancelled or modified without substantial loss-for physical construction of the facility to be completed within a reasonable time.

[~~(43)~~](46) "Existing portion" means that land surface area of an existing waste management unit, included in the original Part A permit application, on which wastes have been placed prior to the issuance of a permit.

[~~(44)~~](47) "Existing tank system" or "existing component" means a tank system or component that is used for the storage or treatment of hazardous waste and that is in operation, or for which installation has commenced on or prior to July 14, 1986, or December 16, 1988 for purposes of implementing the non-HSWA requirements of the tank regulations as promulgated by EPA on July 14, 1986, 51 FR 25470, as they have been incorporated into the corresponding rules of R315. A non-HSWA existing tank system or non-HSWA tank component is one which does not implement any of the requirements of the federal Hazardous and Solid Waste Amendments of 1984 (HSWA) as identified in Table 1 of 40 CFR 271.1. Installation shall be considered to have commenced if the owner or operator has obtained all Federal, State, and local approvals or permits necessary to begin physical construction of the site or installation of the tank system and if either:

(i) a continuous on-site physical construction or installation program has begun; or

(ii) the owner or operator has entered into contractual obligations, which cannot be canceled or modified without substantial loss, for physical construction of the site or installation of the tank system to be completed within a reasonable time.

[~~(45)~~](48) "Facility" means:

(i) All contiguous land, and structures, other appurtenances, and improvements on the land, used for treating, storing, or disposing of hazardous waste, or for managing hazardous secondary materials prior to reclamation. A facility may consist of several treatment, storage, or disposal operational units, e.g., one or more landfills, surface impoundments, or combinations of them.

(ii) For the purpose of implementing corrective action under Section R315-264-101, all contiguous property under the control of the owner or operator seeking a permit under Section 19-6-108. This definition also applies to facilities implementing corrective action under Section R315-263-31 and Rule R315-101.

(iii) Notwithstanding Subsection R315-[~~1~~]260-10(c)[~~(43)~~](48)(ii), a remediation waste management site is not a facility that is subject to Section R315-264-101, but is subject to corrective action requirements if the site is located within such a facility.

[~~(46)~~](49) "Federal agency" means any department, agency, or other instrumentality of the Federal Government, any independent agency or establishment of the Federal Government including any Government corporation, and the Government Printing Office.

[~~(47)~~](50) "Federal, State and local approvals or permits necessary to begin physical construction" means permits and approvals required under Federal, State or local hazardous waste control statutes, regulations or ordinances.

[~~(48)~~](51) "Final closure" means the closure of all hazardous waste management units at the facility in accordance with all applicable closure requirements so that hazardous waste management activities under Rules R315-264 and 265 are no longer conducted at the facility unless subject to the provisions in Section R315-262-34.

[~~(49)~~](52) "Food-chain crops" means tobacco, crops grown for human consumption, and crops grown for feed for animals whose products are consumed by humans.

[~~(50)~~](53) "Free liquids" means liquids which readily separate from the solid portion of a waste under ambient temperature and pressure.

[~~(51)~~](54) "Freeboard" means the vertical distance between the top of a tank or surface impoundment dike, and the surface of the waste contained therein.

[~~(52)~~](55) "Generator" means any person, by site, whose act or process produces hazardous waste identified or listed in Rule R315-261 or whose act first causes a hazardous waste to become subject to regulation.

[~~(53)~~](56) "Ground water" means water below the land surface in a zone of saturation.

[~~(54)~~](57) "Hazard class" means:

(i) The DOT hazard class identified in 49 CFR 172; and

(ii) If the DOT hazard class is "OTHER REGULATED MATERIAL," ORM, the EPA hazardous waste characteristic exhibited by the waste and identified in Sections R315-261-20 through 24.

[~~(55)~~](58) "Hazardous secondary material" means a secondary material, e.g., spent material, by-product, or sludge, that, when discarded, would be identified as hazardous waste under Rule R315-261.

[~~(56)~~](59) "Hazardous secondary material generator" means any person whose act or process produces hazardous secondary materials at the generating facility. For purposes of Subsection R315-260-10(c)[~~(58)~~](59), "generating facility" means all contiguous property owned, leased, or otherwise controlled by the hazardous secondary material generator. For the purposes of Subsections R315-261-2(a)(2)(ii) and R315-261-4(a)(23), a facility that collects hazardous secondary materials from other persons is not the hazardous secondary material generator.

[~~(57)~~](60) "Hazardous waste constituent" means a constituent that caused the Board to list the hazardous waste in Sections R315-261-30 through 35, or a constituent listed in table 1 of Section R315-261-24.

[~~(58)~~](61) "Hazardous waste management unit" is a contiguous area of land on or in which hazardous waste is placed, or the largest area in which there is significant likelihood of mixing hazardous waste constituents in the same area. Examples of hazardous waste management units include a surface impoundment, a waste pile, a land treatment area, a landfill cell, an incinerator, a tank and its associated piping and underlying containment system and a container storage area. A container alone does not constitute a unit; the unit includes containers and the land or pad upon which they are placed.

[~~(59)~~](62) "In operation" refers to a facility which is treating, storing, or disposing of hazardous waste.

[~~(60)~~](63) "Inactive portion" means that portion of a facility which is not operated after November 19, 1980. See also "active portion" and "closed portion".

[~~(61)~~](64) "Incinerator" means any enclosed device that:

(i) Uses controlled flame combustion and neither meets the criteria for classification as a boiler, sludge dryer, or carbon regeneration unit, nor is listed as an industrial furnace; or

(ii) Meets the definition of infrared incinerator or plasma arc incinerator.

[~~(62)~~](65) "Incompatible waste" means a hazardous waste which is unsuitable for:

(i) Placement in a particular device or facility because it may cause corrosion or decay of containment materials, e.g., container inner liners or tank walls; or

(ii) Commingling with another waste or material under uncontrolled conditions because the commingling might produce heat or pressure, fire or explosion, violent reaction, toxic dusts, mists, fumes, or gases, or flammable fumes or gases.

[~~(63)~~](66) "Individual generation site" means the contiguous site at or on which one or more hazardous wastes are generated. An individual generation site, such as a large manufacturing plant, may have one or more sources of hazardous waste but is considered a single or individual generation site if the site or property is contiguous.

[~~(64)~~](67) "Industrial furnace" means any of the following enclosed devices that are integral components of manufacturing processes and that use thermal treatment to accomplish recovery of materials or energy:

(i) Cement kilns;

(ii) Lime kilns;

(iii) Aggregate kilns;

(iv) Phosphate kilns;

(v) Coke ovens;

(vi) Blast furnaces;

(vii) Smelting, melting and refining furnaces, including pyrometallurgical devices such as cupolas, reverberator furnaces, sintering machine, roasters, and foundry furnaces;

(viii) Titanium dioxide chloride process oxidation reactors;

(ix) Methane reforming furnaces;

(x) Pulping liquor recovery furnaces;

(xi) Combustion devices used in the recovery of sulfur values from spent sulfuric acid;

(xii) Halogen acid furnaces (HAFs) for the production of acid from halogenated hazardous waste generated by chemical production facilities where the furnace is located on the site of a chemical production facility, the acid product has a halogen acid content of at least 3%, the acid product is used in a manufacturing process, and, except for hazardous waste burned as fuel, hazardous waste fed to the furnace has a minimum halogen content of 20% as-generated.

(xiii) Such other devices as the Board may, after notice and comment, add to this list on the basis of one or more of the following factors:

(A) The design and use of the device primarily to accomplish recovery of material products;

(B) The use of the device to burn or reduce raw materials to make a material product;

(C) The use of the device to burn or reduce secondary materials as effective substitutes for raw materials, in processes using raw materials as principal feedstocks;

(D) The use of the device to burn or reduce secondary materials as ingredients in an industrial process to make a material product;

(E) The use of the device in common industrial practice to produce a material product; and

(F) Other factors, as appropriate.

[~~(65)~~](68) "Infrared incinerator" means any enclosed device that uses electric powered resistance heaters as a source of radiant heat followed by an afterburner using controlled flame combustion and which is not listed as an industrial furnace.

[~~(66)~~](69) "Inground tank" means a device meeting the definition of "tank" in Section R315-260-10 whereby a portion of the tank wall is situated to any degree within the ground, thereby preventing visual inspection of that external surface area of the tank that is in the ground.

[~~(67)~~](70) "Injection well" means a well into which fluids are injected. See also "underground injection".

[~~(68)~~](71) "Inner liner" means a continuous layer of material placed inside a tank or container which protects the construction materials of the tank or container from the contained waste or reagents used to treat the waste.

[~~(69)~~](72) "Installation inspector" means a person who, by reason of his knowledge of the physical sciences and the principles of engineering, acquired by a professional education and related practical experience, is qualified to supervise the installation of tank systems.

[~~(70)~~](73) "Intermediate facility" means any facility that stores hazardous secondary materials for more than 10 days, other than a hazardous secondary material generator or reclaimer of such material.

[~~(71)~~](74) "International shipment" means the transportation of hazardous waste into or out of the jurisdiction of the United States.

[~~(72)~~](75) "Lamp," also referred to as "universal waste lamp", is defined as the bulb or tube portion of an electric lighting device. A lamp is specifically designed to produce radiant energy, most often in the ultraviolet, visible, and infra-red regions of the electromagnetic spectrum. Examples of common universal waste electric lamps include, but are not limited to, fluorescent, high intensity discharge, neon, mercury vapor, high pressure sodium, and metal halide lamps.

[~~(73)~~](76) "Land-based unit" means an area where hazardous secondary materials are placed in or on the land before recycling. This definition does not include land-based production units.

[~~(74)~~](77) "Landfill" means a disposal facility or part of a facility where hazardous waste is placed in or on land and which is not a pile, a land treatment facility, a surface impoundment, an underground injection well, a salt dome formation, a salt bed formation, an underground mine, a cave, or a corrective action management unit.

[~~(75)~~](78) "Landfill cell" means a discrete volume of a hazardous waste landfill which uses a liner to provide isolation of wastes from adjacent cells or wastes. Examples of landfill cells are trenches and pits.

[~~(76)~~](79) "Land treatment facility" means a facility or part of a facility at which hazardous waste is applied onto or incorporated into the soil surface; such facilities are disposal facilities if the waste will remain after closure.

[~~(77)~~](80) "Large quantity generator" is a generator who generates any of the following amounts in a calendar month:

(i) Greater than or equal to 1,000 kilograms (2,200 lbs) of non-acute hazardous waste; or

(ii) Greater than 1 kilogram (2.2 lbs) of acute hazardous waste listed in Section R315-261-31 or Subsection R315-261-33(e); or

(iii) Greater than 100 kilograms (220 lbs) of any residue or contaminated soil, water, or other debris resulting from the cleanup of a spill, into or on any land or water, of any acute hazardous waste listed in Section R315-261-31 or Subsection R315-261-33(e).

[~~(78)~~](81) "Leachate" means any liquid, including any suspended components in the liquid, that has percolated through or drained from hazardous waste.

[~~(79)~~](82) "Leak-detection system" means a system capable of detecting the failure of either the primary or secondary containment structure or the presence of a release of hazardous waste or accumulated liquid in the secondary containment structure. Such a system shall employ operational controls, e.g., daily visual inspections for releases into the secondary containment system of aboveground tanks, or consist of an interstitial monitoring device designed to detect continuously and automatically the failure of the primary or secondary containment structure or the presence of a release of hazardous waste into the secondary containment structure.

[~~(80)~~](83) "Liner" means a continuous layer of natural or man-made materials, beneath or on the sides of a surface impoundment, landfill, or landfill cell, which restricts the downward or lateral escape of hazardous waste, hazardous waste constituents, or leachate.

[~~(81)~~](84) "Management" or "hazardous waste management" means the systematic control of the collection, source separation, storage, transportation, processing, treatment, recovery, and disposal of hazardous waste.

[~~(82)~~](85) "Manifest" is defined in Subsection 19-6-102(14) and is further defined as: the shipping document EPA Form 8700-22, including, if necessary, EPA Form 8700-22A, or the electronic manifest, originated and signed in accordance with the applicable requirements of Rules R315-262 through 265.

[~~(83)~~](86) "Manifest tracking number" means: The alphanumeric identification number, i.e., a unique three letter suffix preceded by nine numerical digits, which is pre-printed in Item 4 of the Manifest by a registered source.

[~~(84)~~](87) "Mercury-containing equipment" means a device or part of a device, including thermostats, but excluding batteries and lamps, that contains elemental mercury integral to its function.

[~~(85)~~](88) "Mining overburden returned to the mine site" means any material overlying an economic mineral deposit which is removed to gain access to that deposit and is then used for reclamation of a surface mine.

[~~(86)~~](89) "Miscellaneous unit" means a hazardous waste management unit where hazardous waste is treated, stored, or disposed of and that is not a container, tank, surface impoundment, pile, land treatment unit, landfill, incinerator, boiler, industrial furnace, underground injection well with appropriate technical standards under 40 CFR 146, containment building, corrective action management unit, unit eligible for a research, development, and demonstration permit under Section R315-270-65, or staging pile.

[~~(87)~~](90) "Monitoring" means all procedures used to systematically inspect and collect data on operational parameters of the facility or on the quality of the air, ground water, surface water, or soils.

[~~(88)~~](91) "Movement" means that hazardous waste transported to a facility in an individual vehicle.

[~~(89)~~](92) "New hazardous waste management facility" or "new facility" means a facility which began operation, or for which construction commenced after November 19, 1980. See also "Existing hazardous waste management facility".

[~~(90)~~](93) "New tank system" or "new tank component" means a tank system or component that will be used for the storage or treatment of hazardous waste and for which installation has commenced after July 14, 1986; except, however, for purposes of Subsections R315-264-193(g)(2) and 40 CFR 265.193(g)(2), which is adopted and incorporated by reference, a new tank system is one for which construction commences after July 14, 1986, or December 16, 1988 for purposes of implementing the non-HSWA requirements of the tank regulations as promulgated by EPA on July 14, 1986, 51 FR 25470, as they have been incorporated into the corresponding rules of R315; except, however, for purposes of 40 CFR 265-193(g)(2), which is adopted and incorporated by reference, and Subsection R315-264-193(g)(2), a new tank system is one which construction commences after July 14, 1986. A non-HSWA new tank system or non-HSWA new tank component is one which does not implement any of the requirements of the federal Hazardous and Solid Waste Amendments of 1984 (HSWA) as identified in Table 1 of 40 CFR 271.1. See also "existing tank system."

[~~(91)~~](94) "No free liquids, as used in Subsections R315-261-4(a)(26) and R315-261-4(b)(18)", means that solvent-contaminated wipes may not contain free liquids as determined by Method 9095B, Paint Filter Liquids Test, included in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Publication SW-846, and that there is no free liquid in the container holding the wipes. No free liquids may also be determined using another standard or test method as defined by the Director.

[~~(92)~~](95) "Non-acute hazardous waste" means all hazardous wastes that are not acute hazardous waste, as defined in Section R315-260-10.

[~~(93)~~](96) "On ground tank" means a device meeting the definition of "tank" in Section R315-260-10 and that is situated in such a way that the bottom of the tank is on the same level as the adjacent surrounding surface so that the external tank bottom cannot be visually inspected.

[~~(94)~~](97) "On-site" means the same or geographically contiguous property which may be divided by public or private right-of-way, provided the entrance and exit between the properties is at a cross-roads intersection, and access is by crossing as opposed to going along, the right-of-way. Non-contiguous properties owned by the same person but connected by a right-of-way which he controls and to which the public does not have access, is also considered on-site property.

[~~(95)~~](98) "Open burning" means the combustion of any material without the following characteristics:

(i) Control of combustion air to maintain adequate temperature for efficient combustion,

(ii) Containment of the combustion-reaction in an enclosed device to provide sufficient residence time and mixing for complete combustion, and

(iii) Control of emission of the gaseous combustion products. See also "incineration" and "thermal treatment".

[~~(96)~~](99) "Operator" means the person responsible for the overall operation of a facility.

[~~(97)~~](100) "Owner" means the person who owns a facility or part of a facility.

[~~(98)~~](101) "Partial closure" means the closure of a hazardous waste management unit in accordance with the applicable closure requirements of Rules R315-264 and 265 at a facility that contains other active hazardous waste management units. For example, partial closure may include the closure of a tank, including its associated piping and underlying containment systems, landfill cell, surface impoundment, waste pile, or other hazardous waste management unit, while other units of the same facility continue to operate.

[~~(99)~~](102) "Polychlorinated biphenyl, PCB" and "PCBs" means any chemical substance that is limited to the biphenyl molecule that has been chlorinated to varying degrees or any combination of substances which contains such substance. PCB and PCBs as contained in PCB items are defined in Section R315-260-10. For any purposes under Rules R315-260 through 266, 268, 270, 273, R315-15, and R315-[~~5-~~]101, inadvertently generated non-Aroclor PCBs are defined as the total PCBs calculated following division of the quantity of monochlorinated biphenyls by 50 and dichlorinated biphenyls by 5.

[~~(100)~~](103) "PCB Item" means any PCB Article, PCB Article Container, PCB Container, PCB Equipment, or anything that deliberately or unintentionally contains or has as a part of it any PCB or PCBs.

[~~(101)~~](104) "Permit" means the plan approval as required by subsection 19-6-108(3)(a), or equivalent control document issued by the Director to implement the requirements of the Utah Solid and Hazardous Waste Act;

[~~(102)~~](105) "Permittee" is defined in Subsection 19-6-102(18) and includes any person who has received an approval of a hazardous waste operation plan under Section 19-6-108 and Rule R315-262 or a Federal RCRA permit for a treatment, storage, or disposal facility.

[~~(103)~~](106) "Person" means an individual, trust, firm, joint stock company, Federal Agency, corporation, including a government corporation, partnership, association, State, municipality, commission, political subdivision of a State, or any interstate body.

[~~(104)~~](107) "Personnel" or "facility personnel" means all persons who work at, or oversee the operations of, a hazardous waste facility, and whose actions or failure to act may result in noncompliance with the requirements of Rules R315-264 or 265.

[~~(105)~~](108) "Pesticide" means any substance or mixture of substances intended for preventing, destroying, repelling, or mitigating any pest, or intended for use as a plant regulator, defoliant, or desiccant, other than any article that:

(i) Is a new animal drug under FFDCA section 201(w), or

(ii) Is an animal drug that has been determined by regulation of the Secretary of Health and Human Services not to be a new animal drug, or

(iii) Is an animal feed under FFDCA section 201(x) that bears or contains any substances described by Subsection R315-260-10(c)[~~(105)~~](108)(i) or (ii).

[~~(106)~~](109) "Pile" means any non-containerized accumulation of solid, nonflowing hazardous waste that is used for treatment or storage and that is not a containment building.

[~~(107)~~](110) "Plasma arc incinerator" means any enclosed device using a high intensity electrical discharge or arc as a source of heat followed by an afterburner using controlled flame combustion and which is not listed as an industrial furnace.

[~~(108)~~](111) "POHC's" means principle organic hazardous constituents.

[~~(109)~~](112) "Point source" means any discernible, confined, and discrete conveyance, including, but not limited to any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, or vessel or other floating craft, from which pollutants are or may be discharged. This term does not include return flows from irrigated agriculture.

[~~(110)~~](113) "Precipitation run-off" means water generated from naturally occurring storm events. If the precipitation run-off has been in contact with a waste defined in Sections R315-261-20 through 24, it qualifies as "precipitation run-off" if the water does not exhibit any of the characteristics identified in Section R315-261-20 through 24. If the precipitation run-off has been in contact with a waste listed in Sections R315-261-30 through 35, then it qualifies as "precipitation run-off" when the water has been excluded under Section R315-260-22. Water containing any leachate does not qualify as "precipitation run-off".

[~~(111)~~](114) "Publicly owned treatment works" or "POTW" means any device or system used in the treatment, including recycling and reclamation, of municipal sewage or industrial wastes of a liquid nature which is owned by the State or a political subdivision within the State. This definition includes sewers, pipes, or other conveyances only if they convey wastewater to a POTW providing treatment.

[~~(112)~~](115) "Qualified Ground-Water Scientist" means a scientist or engineer who has received a baccalaureate or post-graduate degree in the natural sciences or engineering, and has sufficient training and experience in ground-water hydrology and related fields as may be demonstrated by state registration, professional certifications, or completion of accredited university courses that enable that individual to make sound professional judgements regarding ground-water monitoring and contaminant fate and transport.

[~~(113)~~](116) "RCRA" means the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act of 1976, as amended, 42 U.S.C. section 6901 et seq.

[~~(114)~~](117) "Remanufacturing" means processing a higher-value hazardous secondary material in order to manufacture a product that serves a similar functional purpose as the original commercial-grade material. For the purpose of this definition, a hazardous secondary material is considered higher-value if it was generated from the use of a commercial-grade material in a manufacturing process and can be remanufactured into a similar commercial-grade material.

[~~(115)~~](118) "Remediation waste" means all solid and hazardous wastes, and all media, including ground water, surface water, soils, and sediments, and debris, that are managed for implementing cleanup.

[~~(116)~~](119) "Remediation waste management site" means a facility where an owner or operator is or will be treating, storing or disposing of hazardous remediation wastes. A remediation waste management site is not a facility that is subject to corrective action under Section R315-264-101, but is subject to corrective action requirements if the site is located in such a facility.

[~~(117)~~](120)(i) "Replacement unit" means a landfill, surface impoundment, or waste pile unit:

(A) from which all or substantially all of the waste is removed; and

(B) that is subsequently reused to treat, store, or dispose of hazardous waste.

(ii) "Replacement unit" does not apply to a unit from which waste is removed during closure, if the subsequent reuse solely involves the disposal of waste from that unit and other closing units or corrective action areas at the facility, in accordance with a closure plan approved by the Director or a corrective action approved by the Director.

[~~(118)~~](121) "Representative sample" means a sample of a universe or whole, e.g., waste pile, lagoon, ground water, which can be expected to exhibit the average properties of the universe or whole.

[~~(119)~~](122) "Run-off" means any rainwater, leachate, or other liquid that drains over land from any part of a facility.

[~~(120)~~](123) "Run-on" means any rainwater, leachate, or other liquid that drains over land onto any part of a facility.

[~~(121)~~](124) "Saturated zone" or "zone of saturation" means that part of the earth's crust in which all voids are filled with water.

[~~(122)~~](125) "Sludge" means any solid, semi-solid, or liquid waste generated from a municipal, commercial, or industrial wastewater treatment plant, water supply treatment plant, or air pollution control facility exclusive of the treated effluent from a wastewater treatment plant.

[~~(123)~~](126) "Sludge dryer" means any enclosed thermal treatment device that is used to dehydrate sludge and that has a maximum total thermal input, excluding the heating value of the sludge itself, of 2,500 Btu/lb of sludge treated on a wet-weight basis.

[~~(124)~~](127) "Small Quantity Generator" is a generator who generates the following amounts in a calendar month:

(i) Greater than 100 kilograms (220 lbs) but less than 1,000 kilograms (2,200 lbs) of non-acute hazardous waste; and

(ii) Less than or equal to 1 kilogram (2.2 lbs) of acute hazardous waste listed in Section R315-261-31 or Subsection R315-261-33(e); and

(iii) Less than or equal to 100 kilograms (220 lbs) of any residue or contaminated soil, water, or other debris resulting from the cleanup of a spill, into or on any land or water, of any acute hazardous waste listed in Section R315-261-31 or Subsection R315-261-33(e).

[~~(125)~~](128) "Solid Waste Management Unit" means any discernible unit at which solid wastes have been placed at any time, irrespective of whether the unit was intended for the management of solid or hazardous waste. Such units include any area at a facility at which solid wastes have been routinely and systematically released.

[~~(126)~~](129) "Solvent-contaminated wipe" means:

(i) A wipe that, after use or after cleaning up a spill, either:

(A) Contains one or more of the F001 through F005 solvents listed in Section R315-261-31 or the corresponding P- or U-listed solvents found in Section R315-261-33;

(B) Exhibits a hazardous characteristic found in Sections R315-261-20 through 24 when that characteristic results from a solvent listed in Rule R315-261; and/or

(C) Exhibits only the hazardous waste characteristic of ignitability found in Section R315-261-21 due to the presence of one or more solvents that are not listed in Rule R315-261.

(ii) Solvent-contaminated wipes that contain listed hazardous waste other than solvents, or exhibit the characteristic of toxicity, corrosivity, or reactivity due to contaminants other than solvents, are not eligible for the exclusions at Subsections R315-261-4(a)(26) and R315-261-4(b)(18).

[~~(127)~~](130) "Sorbent" means a material that is used to soak up free liquids by either adsorption or absorption, or both.

[~~(128)~~](131) "Sorb" means to either adsorb or absorb, or both.

[~~(129)~~](132) A "spent material" is any material that has been used and as a result of contamination can no longer serve the purpose for which it was produced without processing.

[~~(130)~~](133) "Spill" means the accidental discharging, spilling, leaking, pumping, pouring, emitting, emptying, releasing, or dumping of hazardous wastes or materials which, when spilled, become hazardous wastes, into or on any land or water.

[~~(131)~~](134) "Staging pile" means an accumulation of solid, non-flowing remediation waste, as defined in Section R315-260-10, that is not a containment building and that is used only during remedial operations for temporary storage at a facility. Staging piles shall be designated by the Director according to the requirements of Section R315-264-554.

[~~(132)~~](135) "State" means the state of Utah.

[~~(133)~~](136) "Storage" is defined in Subsection 19-6-102(20) and includes the holding of hazardous waste for a temporary period, at the end of which the hazardous waste is treated, disposed of, or stored elsewhere.

[~~(134)~~](137) "Sump" means any pit or reservoir that meets the definition of tank and those troughs/trenches connected to it that serve to collect hazardous waste for transport to hazardous waste storage, treatment, or disposal facilities; except that as used in the landfill, surface impoundment, and waste pile rules, "sump" means any lined pit or reservoir that serves to collect liquids drained from a leachate collection and removal system or leak detection system for subsequent removal from the system.

[~~(135)~~](138) "Surface impoundment" or "impoundment" means a facility or part of a facility which is a natural topographic depression, man-made excavation, or diked area formed primarily of earthen materials, although it may be lined with man-made materials, which is designed to hold an accumulation of liquid wastes or wastes containing free liquids, and which is not an injection well. Examples of surface impoundments are holding, storage, settling, and aeration pits, ponds, and lagoons.

[~~(136)~~](139) "Tank" means a stationary device, designed to contain an accumulation of hazardous waste which is constructed primarily of non-earthen materials, e.g., wood, concrete, steel, plastic, which provide structural support.

[~~(137)~~](140) "Tank system" means a hazardous waste storage or treatment tank and its associated ancillary equipment and containment system.

[~~(138)~~](141) "TEQ" means toxicity equivalence, the international method of relating the toxicity of various dioxin/furan congeners to the toxicity of 2,3,7,8-tetrachlorodibenzo-p-dioxin.

[~~(139)~~](142) "Thermal treatment" means the treatment of hazardous waste in a device which uses elevated temperatures as the primary means to change the chemical, physical, or biological character or composition of the hazardous waste. Examples of thermal treatment processes are incineration, molten salt, pyrolysis, calcination, wet air oxidation, and microwave discharge. See also "incinerator" and "open burning".

[~~(140)~~](143) "Thermostat" means a temperature control device that contains metallic mercury in an ampule attached to a bimetal sensing element, and mercury-containing ampules that have been removed from these temperature control devices in compliance with the requirements of Subsections R315-273-13(c)(2) or R315-273-33(c)(2).

[~~(141)~~](144) "Totally enclosed treatment facility" means a facility for the treatment of hazardous waste which is directly connected to an industrial production process and which is constructed and operated in a manner which prevents the release of any hazardous waste or any constituent thereof into the environment during treatment. An example is a pipe in which waste acid is neutralized.

[~~(142)~~](145) "Transfer facility" means any transportation-related facility, including loading docks, parking areas, storage areas and other similar areas where shipments of hazardous waste or hazardous secondary materials are held during the normal course of transportation.

[~~(143)~~](146) "Transport vehicle" means a motor vehicle or rail car used for the transportation of cargo by any mode. Each cargo-carrying body; trailer, railroad freight car, etc.; is a separate transport vehicle.

[~~(144)~~](147) Transportation" is defined in Subsection 19-6-102(21) and includes the movement of hazardous waste by air, rail, highway, or water.

[~~(145)~~](148) "Transporter" means a person engaged in the offsite transportation of hazardous waste by air, rail, highway, or water.

[~~(146)~~](149)(i) "Treatability study" means a study in which a hazardous waste is subjected to a treatment process to determine:

(A) Whether the waste is amenable to the treatment process,

(B) what pretreatment, if any, is required,

(C) the optimal process conditions needed to achieve the desired treatment,

(D) the efficiency of a treatment process for a specific waste or wastes, or

(E) the characteristics and volumes of residuals from a particular treatment process.

(ii) Also included in this definition for the purpose of the Subsection R315-261-4 (e) and (f) exemptions are liner compatibility, corrosion, and other material compatibility studies and toxicological and health effects studies.

(iii) A "treatability study" is not a means to commercially treat or dispose of hazardous waste.

[~~(147)~~](150) "Treatment" is defined in Subsection 19-6-102(22) and includes any method, technique, or process, including neutralization, designed to change the physical, chemical, or biological character or composition of any hazardous waste so as to neutralize such waste, or so as to recover energy or material resources from the waste, or so as to render such waste non-hazardous, or less hazardous; safer to transport, store, or dispose of; or amenable for recovery, amenable for storage, or reduced in volume.

[~~(148)~~](151) "Treatment zone" means a soil area of the unsaturated zone of a land treatment unit within which hazardous constituents are degraded, transformed, or immobilized.

[~~(149)~~](152) "Underground injection" means the subsurface emplacement of fluids through a bored, drilled or driven well; or through a dug well, where the depth of the dug well is greater than the largest surface dimension. See also "injection well".

[~~(150)~~](153) "Underground tank" means a device meeting the definition of "tank" in Section R315-260-10 whose entire surface area is totally below the surface of and covered by the ground.

[~~(151)~~](154) "Unfit-for use tank system" means a tank system that has been determined through an integrity assessment or other inspection to be no longer capable of storing or treating hazardous waste without posing a threat of release of hazardous waste to the environment.

[~~(152)~~](155) "United States" means the 50 States, the District of Columbia, the Commonwealth of Puerto Rico, the U.S.

Virgin Islands, Guam, American Samoa, and the Commonwealth of the Northern Mariana Islands.

[~~(153)~~](156) "Universal waste" means any of the following hazardous wastes that are managed under the universal waste requirements of Rule R315-273:

(i) Batteries as described in Section R315-273-2;

(ii) Pesticides as described in Section R315-273-3;

(iii) Mercury-containing equipment as described in Section R315-273-4;

(iv) Lamps as described in Section R315-273-5;

(v) Antifreeze as described in Subsection R315-273-6(a); and

(vi) Aerosol cans as described in Subsection R315-273-6(b).

[~~(154)~~](157) Universal waste handler

(i) Means:

(A) A generator of universal waste; or

(B) The owner or operator of a facility, including all contiguous property, that receives universal waste from other universal waste handlers, accumulates universal waste, and sends universal waste to another universal waste handler, to a destination facility, or to a foreign destination.

(ii) Does not mean:

(A) A person who treats, except under the provisions of Subsection R315-273-13(a) or (c), or R315-273-33(a) or (c), disposes of, or recycles universal waste; or

(B) A person engaged in the off-site transportation of universal waste by air, rail, highway, or water, including a universal waste transfer facility.

[~~(155)~~](158) "Universal waste transporter" means a person engaged in the off-site transportation of universal waste by air, rail, highway, or water.

[~~(156)~~](159) "Unsaturated zone" or "zone of aeration" means the zone between the land surface and the water table.

[~~(157)~~](160) "Uppermost aquifer" means the geologic formation nearest the natural ground surface that is an aquifer, as well as lower aquifers that are hydraulically interconnected with this aquifer within the facility's property boundary.

[~~(158)~~](161) Used oil is defined in Subsection 19-6-703(19).

[~~(159)~~](162) "User of the electronic manifest system" means a hazardous waste generator, a hazardous waste transporter, an owner or operator of a hazardous waste treatment, storage, recycling, or disposal facility, or any other person that:

(i) Is required to use a manifest to comply with:

(A) Any federal or state requirement to track the shipment, transportation, and receipt of hazardous waste or other waste material that is shipped from the site of generation to an off-site designated facility for treatment, storage, recycling, or disposal; or

(B) Any federal or state requirement to track the shipment, transportation, and receipt of rejected wastes or regulated container residues that are shipped from a designated facility to an alternative facility, or returned to the generator; and

(ii) Elects to use the system to obtain, complete and transmit an electronic manifest format supplied by the EPA electronic manifest system, or

(iii) Elects to use the paper manifest form and submits to the system for data processing purposes a paper copy of the manifest, or data from such a paper copy, in accordance with Subsections R315-264-71(a)(2)(v) or 40 CFR 265.71(a)(2)(v) which is adopted and incorporated by reference. These paper copies are submitted for data exchange purposes only and are not the official copies of record for legal purposes.

[~~(160)~~](163) "Very small quantity generator" is a generator who generates less than or equal to the following amounts in a calendar month:

(i) 100 kilograms (220 lbs) of non-acute hazardous waste; and

(ii) 1 kilogram (2.2 lbs) of acute hazardous waste listed in Section R315-261-31 or Subsection R315-261-33(e); and

(iii) 100 kilograms (220 lbs) of any residue or contaminated soil, water, or other debris resulting from the cleanup of a spill, into or on any land or water, of any acute hazardous waste listed in Section R315-261-31 or Subsection R315-261-33(e).

[~~(161)~~](164) "Vessel" includes every description of watercraft, used or capable of being used as a means of transportation on the water.

[~~(162)~~](165) "Waste management area" means the limit projected in the horizontal plane of the area on which waste will be placed during the active life of a regulated unit. The waste management area includes horizontal space taken up by any liner, dike, or other barrier designed to contain waste in a regulated unit. If the facility contains more than one regulated unit, the waste management area is described by an imaginary line circumscribing the several regulated units.

[~~(163)~~](166) "Wastewater treatment unit" means a device which:

(i) Is part of a wastewater treatment facility that is subject to regulation under either section 402 or 307(b) of the Clean Water Act; and

(ii) Receives and treats or stores an influent wastewater that is a hazardous waste as defined in Section R315-261-3, or that generates and accumulates a wastewater treatment sludge that is a hazardous waste as defined in Section R315-261-3, or treats or stores a wastewater treatment sludge which is a hazardous waste as defined in Section R315-261-3; and

(iii) Meets the definition of tank or tank system in Section R315-260-10.

[~~(164)~~](167) "Water, bulk shipment" means the bulk transportation of hazardous waste which is loaded or carried on board a vessel without containers or labels.

[~~(165)~~](168) "Well" means any shaft or pit dug or bored into the earth, generally of a cylindrical form, and often walled with bricks or tubing to prevent the earth from caving in.

[~~(166)~~](169) "Well injection": See "underground injection"

[~~(167)~~](170) "Wipe" means a woven or non-woven shop towel, rag, pad, or swab made of wood pulp, fabric, cotton, polyester blends, or other material.

[~~(168)~~](171) "Zone of engineering control" means an area under the control of the owner/operator that, upon detection of a hazardous waste release, can be readily cleaned up prior to the release of hazardous waste or hazardous constituents to ground water or surface water.

KEY: hazardous waste

Date of Enactment or Last Substantive Amendment: [~~September 14, 2018~~]2019

Authorizing, and Implemented or Interpreted Law: 19-1-301; 19-6-105; 19-6-106

Environmental Quality, Waste Management and Radiation Control, Waste Management
R315-261
General Requirements -– Identification and Listing of Hazardous Waste

NOTICE OF PROPOSED RULE
(Amendment)
DAR FILE NO.: 43527
FILED: 02/14/2019

RULE ANALYSIS

PURPOSE OF THE RULE OR REASON FOR THE CHANGE: In May of 2015, the U.S. Department of Transportation (DOT) announced a national recall of airbag inflators manufactured by Takata due to a defect which has resulted in 15 deaths and at least 250 injuries in the U.S. as of August 2018. This recall affects 19 vehicle manufactures with approximately 60,000,000 to 70,000,000 airbag inflators scheduled for recall. A Preservation Order issued by DOT in February 2015 required Takata to preserve all recalled airbag inflators. EPA issued a memorandum in June of 2017 stating that the recalled airbag inflators were not subject to hazardous waste regulations while being held under the Preservation Order. The EPA clarification states that the recalled inflators would be considered a solid waste once the order was lifted. Airbag inflators meet both the ignitability and reactivity hazardous waste characteristics and therefore, would need to be managed as a hazardous waste. In April of 2018, the Preservation Order was amended requiring Takata to keep only a certain percentage of the inflators allowing the remainder to be disposed. The amended order no longer requires affected vehicle manufacturers to send their recalled airbag inflators to Takata thus allowing the manufacturers to dispose of the inflators on their own. DOT has determined that it is imperative that the recall of these airbag inflators be accelerated because the risk of serious injury or death increases over time because the inflators become more unstable as they age and are exposed to high absolute humidity. It is believed that these rule changes will assist in facilitating the recall acceleration by exempting the collection of airbag waste from hazardous waste requirements so long as certain conditions are met. These rule changes became effective at the federal level on 11/30/2018.

SUMMARY OF THE RULE OR CHANGE: Subsection R315-261-4(j) was added. This subsection contains the conditions for exemption from being regulated as a hazardous waste for airbag waste.

STATUTORY OR CONSTITUTIONAL AUTHORIZATION FOR THIS RULE: Section 19-6-104 and Section 19-6-105 and Section 19-6-106

ANTICIPATED COST OR SAVINGS TO:
♦ THE STATE BUDGET: These rule changes will not affect the state budget because no state governmental agency is a vehicle manufacturer subject to provisions of the recall of Takata airbag inflators.
♦ LOCAL GOVERNMENTS: These rule changes will not affect any local government because no local governments are vehicle manufacturers subject to provisions of the recall of Takata airbag inflators.
♦ SMALL BUSINESSES: There are 385 car dealerships (NAICS 4411) in Utah that are small businesses that could be involved in removing and disposing of airbag inflators. These dealerships make up 80.5% of the dealerships in Utah. Most car dealerships are currently very small quantity generators of hazardous waste. With the removal of the DOT Preservation Order protections, a dealership would be required to manage the removed airbag inflators as hazardous waste which could result in dealerships becoming small quantity generators of hazardous waste. These dealerships would in turn incur the costs associated with being small quantity generators (e.g. packaging and labeling, recordkeeping, personnel training, storage, and shipping). Due to the exemptions provided by these rule changes, dealerships will not incur these costs and therefore, could see a cost savings of approximately $81.55 per year. Data to assist in making this determination was obtained from the EPA document entitled "Economic Assessment of the Safe Management of Recalled Airbags Interim Final Rule" dated October 2018.
♦ PERSONS OTHER THAN SMALL BUSINESSES, BUSINESSES, OR LOCAL GOVERNMENTAL ENTITIES: It is anticipated that if there are any persons other than small businesses, businesses, or local governments that are involved in removing airbag inflators, these persons would see a cost savings with the adoption of these rule changes. However, the data is not available and would be too costly to acquire in order to be able to make a determination as to who these persons are and what the fiscal impact could be, if any.

COMPLIANCE COSTS FOR AFFECTED PERSONS: It is anticipated that there will be no additional compliance costs for affected persons due to the adoption of these rule changes because these changes exempt persons removing airbag inflators from having to comply with several provisions that already exist in rule thus reducing the cost of compliance.

COMMENTS BY THE DEPARTMENT HEAD ON THE FISCAL IMPACT THE RULE MAY HAVE ON BUSINESSES: It is not anticipated that these rule changes will have a negative fiscal impact on any business involved in the removal of airbag inflators. Most car dealerships are currently very small quantity generators of hazardous waste. With the removal of the DOT Preservation Order protections, a dealership would be required to manage the removed airbag inflators as hazardous waste which could result in dealerships becoming small quantity generators of hazardous waste. These dealerships would in turn incur the costs associated with being small quantity generators (e.g. packaging and labeling, recordkeeping, personnel training,

storage, and shipping). It is believed that these rule changes will assist in accelerating the removal of these dangerous airbag inflators. This is accomplished by exempting those businesses involved in the removal of airbag inflators from several of the regulatory requirements which results in a cost savings to those businesses.

THE FULL TEXT OF THIS RULE MAY BE INSPECTED, DURING REGULAR BUSINESS HOURS, AT:

ENVIRONMENTAL QUALITY
WASTE MANAGEMENT AND RADIATION CONTROL, WASTE MANAGEMENT
SECOND FLOOR
195 N 1950 W
SALT LAKE CITY, UT 84116-3097
or at the Office of Administrative Rules.

DIRECT QUESTIONS REGARDING THIS RULE TO:
♦ Rusty Lundberg by phone at 801-536-4257, by FAX at 801-536-0222, or by Internet E-mail at rlundberg@utah.gov
♦ Thomas Ball by phone at 801-536-0251, or by Internet E-mail at tball@utah.gov

INTERESTED PERSONS MAY PRESENT THEIR VIEWS ON THIS RULE BY SUBMITTING WRITTEN COMMENTS NO LATER THAN AT 5:00 PM ON 04/01/2019

THIS RULE MAY BECOME EFFECTIVE ON: 04/15/2019

AUTHORIZED BY: Alan Matheson, Executive Director

Appendix 1: Regulatory Impact Summary Table*

Fiscal Costs	**FY 2019**	**FY 2020**	**FY 2021**
State Government	$0	$0	$0
Local Government	$0	$0	$0
Small Businesses	$0	$0	$0
Non-Small Businesses	$0	$0	$0
Other Person	$0	$0	$0
Total Fiscal Costs:	**$0**	**$0**	**$0**
Fiscal Benefits			
State Government	$0	$0	$0
Local Government	$0	$0	$0
Small Businesses	$31,395	$31,395	$31,395
Non-Small Businesses	$7,605	$7,605	$7,605
Other Persons	$0	$0	$0
Total Fiscal Benefits:	**$39,000**	**$39,000**	**$39,000**
Net Fiscal Benefits:	**$39,000**	**$39,000**	**$39,000**

***This table only includes fiscal impacts that could be measured. If there are inestimable fiscal impacts, they will not be included in this table. Inestimable impacts for State Government, Local Government, Small Businesses and Other Persons are described in the narrative. Inestimable impacts for Non-Small Businesses are described in Appendix 2.**

Appendix 2: Regulatory Impact to Non-Small Businesses
There are 75 car dealerships (NAICS 4411) in Utah that are non-small businesses. These dealerships make up 19.5% of the dealerships in Utah. Most car dealerships are currently very small quantity generators of hazardous waste. With the removal of the DOT Preservation Order protections, a dealership would be required to manage the removed airbag inflators as hazardous waste which could result in dealerships becoming small quantity generators of hazardous waste. These dealerships would in turn incur the costs associated with being small quantity generators (e.g. packaging and labeling, recordkeeping, personnel training, storage, and shipping). Due to the exemptions provided by these rule changes, dealerships will not incur these costs and therefore, could see a cost savings of approximately $101.40 per year.

Data to assist in making this determination was obtained from the EPA document entitled "Economic Assessment of the Safe Management of Recalled Airbags Interim Final Rule" dated October 2018.

The head of the Department of Environmental Quality, Alan Matheson, has reviewed and approved this fiscal analysis.

R315. Environmental Quality, Waste Management and Radiation Control, Waste Management.
R315-261. General Requirements -- Identification and Listing of Hazardous Waste.
R315-261-4. Exclusions.

(a) Materials which are not solid wastes. The following materials are not solid wastes for the purpose of Rule R315-261:

(1)(i) Domestic sewage; and

(ii) Any mixture of domestic sewage and other wastes that passes through a sewer system to a publicly-owned treatment works for treatment. "Domestic sewage" means untreated sanitary wastes that pass through a sewer system.

(2) Industrial wastewater discharges that are point source discharges subject to regulation under section 402 of the Clean Water Act, as amended. This exclusion applies only to the actual point source discharge. It does not exclude industrial wastewaters while they are being collected, stored or treated before discharge, nor does it exclude sludges that are generated by industrial wastewater treatment.

(3) Irrigation return flows.

(4) Source, special nuclear or by-product material as defined by the Atomic Energy Act of 1954, as amended, 42 U.S.C. 2011 et seq.

(5) Materials subjected to in-situ mining techniques which are not removed from the ground as part of the extraction process.

(6) Pulping liquors, i.e., black liquor, that are reclaimed in a pulping liquor recovery furnace and then reused in the pulping process, unless it is accumulated speculatively as defined in Subsection R315-261-1(c).

(7) Spent sulfuric acid used to produce virgin sulfuric acid provided it is not accumulated speculatively as defined in Subsection R315-261-1(c).

(8) Secondary materials that are reclaimed and returned to the original process or processes in which they were generated where they are reused in the production process provided:

(i) Only tank storage is involved, and the entire process through completion of reclamation is closed by being entirely connected with pipes or other comparable enclosed means of conveyance;

(ii) Reclamation does not involve controlled flame combustion, such as occurs in boilers, industrial furnaces, or incinerators;

(iii) The secondary materials are never accumulated in such tanks for over twelve months without being reclaimed; and

(iv) The reclaimed material is not used to produce a fuel, or used to produce products that are used in a manner constituting disposal.

(9)(i) Spent wood preserving solutions that have been reclaimed and are reused for their original intended purpose; and

(ii) Wastewaters from the wood preserving process that have been reclaimed and are reused to treat wood.

(iii) Prior to reuse, the wood preserving wastewaters and spent wood preserving solutions described in Subsections R315-261-4(a)(9)(i) and (ii), so long as they meet all of the following conditions:

(A) The wood preserving wastewaters and spent wood preserving solutions are reused on-site at water borne plants in the production process for their original intended purpose;

(B) Prior to reuse, the wastewaters and spent wood preserving solutions are managed to prevent release to either land or groundwater or both;

(C) Any unit used to manage wastewaters and/or spent wood preserving solutions prior to reuse can be visually or otherwise determined to prevent such releases;

(D) Any drip pad used to manage the wastewaters and/or spent wood preserving solutions prior to reuse complies with the standards in 40 CFR 265.440 through 265.445, which are adopted and incorporated by reference, regardless of whether the plant generates a total of less than 100 kg/month of hazardous waste; and

(E) Prior to operating pursuant to this exclusion, the plant owner or operator prepares a one-time notification stating that the plant intends to claim the exclusion, giving the date on which the plant intends to begin operating under the exclusion, and containing the following language: "I have read the applicable regulation establishing an exclusion for wood preserving wastewaters and spent wood preserving solutions and understand it requires me to comply at all times with the conditions set out in the regulation." The plant shall maintain a copy of that document in its on-site records until closure of the facility. The exclusion applies so long as the plant meets all of the conditions. If the plant goes out of compliance with any condition, it may apply to the Director for reinstatement. The Director may reinstate the exclusion upon finding that the plant has returned to compliance with all conditions and that the violations are not likely to recur.

(10) EPA Hazardous Waste Nos. K060, K087, K141, K142, K143, K144, K145, K147, and K148, and any wastes from the coke by-products processes that are hazardous only because they exhibit the Toxicity Characteristic specified in Section R315-261-24, subsequent to generation, these materials are recycled to coke ovens, to the tar recovery process as a feedstock to produce coal tar, or mixed with coal tar prior to the tar's sale or refining. This exclusion is conditioned on there being no land disposal of the wastes from the point they are generated to the point they are recycled to coke ovens or tar recovery or refining processes, or mixed with coal tar.

(11) Nonwastewater splash condenser dross residue from the treatment of K061 in high temperature metals recovery units, provided it is shipped in drums, if shipped and not land disposed before recovery.

(12)(i) Oil-bearing hazardous secondary materials, i.e., sludges, byproducts, or spent materials, that are generated at a petroleum refinery, SIC code 2911, and are inserted into the petroleum refining process, SIC code 2911-including, but not limited to, distillation, catalytic cracking, fractionation, or thermal cracking units, i.e., cokers, unless the material is placed on the land, or speculatively accumulated before being so recycled. Materials inserted into thermal cracking units are excluded under Subsection R315-261-4(12)(i), provided that the coke product also does not exhibit a characteristic of hazardous waste. Oil-bearing hazardous secondary materials may be inserted into the same petroleum refinery where they are generated, or sent directly to another petroleum refinery and still be excluded under this provision. Except as provided in Subsection R315-261-4(a)(12)(ii), oil-bearing hazardous secondary materials generated elsewhere in the petroleum industry, i.e., from sources other than petroleum refineries, are not excluded under Section R315-261-4. Residuals generated from processing or recycling materials excluded under Subsection R315-261-4(a)(12)(i), where such materials as generated would have otherwise met a listing under Sections R315-261-30 through R315-261-35, are designated as F037 listed wastes when disposed of or intended for disposal.

(ii) Recovered oil that is recycled in the same manner and with the same conditions as described in Subsection R315-261-4(a)(12)(i). Recovered oil is oil that has been reclaimed from secondary materials, including wastewater, generated from normal petroleum industry practices, including refining, exploration and production, bulk storage, and transportation incident thereto, SIC codes 1311, 1321, 1381, 1382, 1389, 2911, 4612, 4613, 4922, 4923, 4789, 5171, and 5172. Recovered oil does not include oil-bearing hazardous wastes listed in Sections R315-261-30 through 35; however, oil recovered from such wastes may be considered recovered oil. Recovered oil does not include used oil as defined in Subsection 19-6-703(19).

(13) Excluded scrap metal (processed scrap metal, unprocessed home scrap metal, and unprocessed prompt scrap metal) being recycled.

(14) Shredded circuit boards being recycled provided that they are:

(i) Stored in containers sufficient to prevent a release to the environment prior to recovery; and

(ii) Free of mercury switches, mercury relays and nickel-cadmium batteries and lithium batteries.

(15) Condensates derived from the overhead gases from kraft mill steam strippers that are used to comply with 40 CFR 63.446(e). The exemption applies only to combustion at the mill generating the condensates.

(16) Reserved.

(17) Spent materials, as defined in Section R315-261-1, other than hazardous wastes listed in Sections R315-261-30 through 35, generated within the primary mineral processing industry from which minerals, acids, cyanide, water, or other values are recovered by mineral processing or by beneficiation, provided that:

(i) The spent material is legitimately recycled to recover minerals, acids, cyanide, water or other values;

(ii) The spent material is not accumulated speculatively;

(iii) Except as provided in Subsection R315-261-4(a)(17)(iv), the spent material is stored in tanks, containers, or buildings meeting the following minimum integrity standards: a building shall be an engineered structure with a floor, walls, and a roof all of which are made of non-earthen materials providing structural support, except smelter buildings may have partially earthen floors provided the secondary material is stored on the non-earthen portion, and have a roof suitable for diverting rainwater away from the foundation; a tank shall be free standing, not be a surface impoundment, as defined in Section R315-260-10, and be manufactured of a material suitable for containment of its contents; a container shall be free standing and be manufactured of a material suitable for containment of its contents. If tanks or containers contain any particulate which may be subject to wind dispersal, the owner/operator shall operate these units in a manner which controls fugitive dust. Tanks, containers, and buildings shall be designed, constructed and operated to prevent significant releases to the environment of these materials.

(iv) The Director may make a site-specific determination, after public review and comment, that only solid mineral processing spent material may be placed on pads rather than tanks containers, or buildings. Solid mineral processing spent materials do not contain any free liquid. The Director shall affirm that pads are designed, constructed and operated to prevent significant releases of the secondary material into the environment. Pads shall provide the same degree of containment afforded by the non-RCRA tanks, containers and buildings eligible for exclusion.

(A) The Director shall also consider if storage on pads poses the potential for significant releases via groundwater, surface water, and air exposure pathways. Factors to be considered for assessing the groundwater, surface water, air exposure pathways are: The volume and physical and chemical properties of the secondary material, including its potential for migration off the pad; the potential for human or environmental exposure to hazardous constituents migrating from the pad via each exposure pathway, and the possibility and extent of harm to human and environmental receptors via each exposure pathway.

(B) Pads shall meet the following minimum standards: Be designed of non-earthen material that is compatible with the chemical nature of the mineral processing spent material, capable of withstanding physical stresses associated with placement and removal, have run on/runoff controls, be operated in a manner which controls fugitive dust, and have integrity assurance through inspections and maintenance programs.

(C) Before making a determination under Subsection R315-261-4(a)(17)(iv), the Director shall provide notice and the opportunity for comment to all persons potentially interested in the determination. This can be accomplished by placing notice of this action in major local newspapers, or broadcasting notice over local radio stations.

(v) The owner or operator provides notice to the Director providing the following information: The types of materials to be recycled; the type and location of the storage units and recycling processes; and the annual quantities expected to be placed in land-based units. This notification shall be updated when there is a change in the type of materials recycled or the location of the recycling process.

(vi) For purposes of Subsection R315-261-4(b)(7), mineral processing spent materials shall be the result of mineral processing and may not include any listed hazardous wastes. Listed hazardous wastes and characteristic hazardous wastes generated by non-mineral processing industries are not eligible for the conditional exclusion from the definition of solid waste.

(18) Petrochemical recovered oil from an associated organic chemical manufacturing facility, where the oil is to be inserted into the petroleum refining process, SIC code 2911, along with normal petroleum refinery process streams, provided:

(i) The oil is hazardous only because it exhibits the characteristic of ignitability, as defined in Section R315-261-21, and/or toxicity for benzene, Section R315-261-24, waste code D018; and

(ii) The oil generated by the organic chemical manufacturing facility is not placed on the land, or speculatively accumulated before being recycled into the petroleum refining process. An "associated organic chemical manufacturing facility" is a facility where the primary SIC code is 2869, but where operations may also include SIC codes 2821, 2822, and 2865; and is physically co-located with a petroleum refinery; and where the petroleum refinery to which the oil being recycled is returned also provides hydrocarbon feedstocks to the organic chemical manufacturing facility. "Petrochemical recovered oil" is oil that has been reclaimed from secondary materials, i.e., sludges, byproducts, or spent materials, including wastewater, from normal organic chemical manufacturing operations, as well as oil recovered from organic chemical manufacturing processes.

(19) Spent caustic solutions from petroleum refining liquid treating processes used as a feedstock to produce cresylic or naphthenic acid unless the material is placed on the land, or accumulated speculatively as defined in Subsection R315-261-1(c).

(20) Hazardous secondary materials used to make zinc fertilizers, provided that the following conditions specified are satisfied:

(i) Hazardous secondary materials used to make zinc micronutrient fertilizers shall not be accumulated speculatively, as defined in Subsection R315-261-1(c)(8).

(ii) Generators and intermediate handlers of zinc-bearing hazardous secondary materials that are to be incorporated into zinc fertilizers shall:

(A) Submit a one-time notice to the Director, which contains the name, address and EPA ID number of the generator or intermediate handler facility, provides a brief description of the secondary material that will be subject to the exclusion, and identifies when the manufacturer intends to begin managing excluded, zinc-bearing hazardous secondary materials under the conditions specified in Subsection R315-261-4(a)(20).

(B) Store the excluded secondary material in tanks, containers, or buildings that are constructed and maintained in a way that prevents releases of the secondary materials into the environment. At a minimum, any building used for this purpose shall be an

engineered structure made of non-earthen materials that provide structural support, and shall have a floor, walls and a roof that prevent wind dispersal and contact with rainwater. Tanks used for this purpose shall be structurally sound and, if outdoors, shall have roofs or covers that prevent contact with wind and rain. Containers used for this purpose shall be kept closed except when it is necessary to add or remove material, and shall be in sound condition. Containers that are stored outdoors shall be managed within storage areas that:

(I) Have containment structures or systems sufficiently impervious to contain leaks, spills and accumulated precipitation; and

(II) Provide for effective drainage and removal of leaks, spills and accumulated precipitation; and

(III) Prevent run-on into the containment system.

(C) With each off-site shipment of excluded hazardous secondary materials, provide written notice to the receiving facility that the material is subject to the conditions of Subsection R315-261-4(a)(20).

(D) Maintain at the generator's or intermediate handlers's facility for no less than three years records of all shipments of excluded hazardous secondary materials. For each shipment these records shall at a minimum contain the following information:

(I) Name of the transporter and date of the shipment;

(II) Name and address of the facility that received the excluded material, and documentation confirming receipt of the shipment; and

(III) Type and quantity of excluded secondary material in each shipment.

(iii) Manufacturers of zinc fertilizers or zinc fertilizer ingredients made from excluded hazardous secondary materials shall:

(A) Store excluded hazardous secondary materials in accordance with the storage requirements for generators and intermediate handlers, as specified in Subsection R315-261-4(a)(20)(ii)(B).

(B) Submit a one-time notification to the Director that, at a minimum, specifies the name, address and EPA ID number of the manufacturing facility, and identifies when the manufacturer intends to begin managing excluded, zinc-bearing hazardous secondary materials under the conditions specified in Subsection R315-261-4(a)(20).

(C) Maintain for a minimum of three years records of all shipments of excluded hazardous secondary materials received by the manufacturer, which shall at a minimum identify for each shipment the name and address of the generating facility, name of transporter and date the materials were received, the quantity received, and a brief description of the industrial process that generated the material.

(D) Submit to the Director an annual report that identifies the total quantities of all excluded hazardous secondary materials that were used to manufacture zinc fertilizers or zinc fertilizer ingredients in the previous year, the name and address of each generating facility, and the industrial process(s) from which they were generated.

(iv) Nothing in Section R315-261-4 preempts, overrides or otherwise negates the provision in Section R315-262-11, which requires any person who generates a solid waste to determine if that waste is a hazardous waste.

(v) Interim status and permitted storage units that have been used to store only zinc-bearing hazardous wastes prior to the submission of the one-time notice described in Subsection R315-261-4(a)(20)(ii)(A), and that afterward will be used only to store hazardous secondary materials excluded under Subsection R315-261-4(a)(20), are not subject to the closure requirements of Rules R315-264 and R315-265.

(21) Zinc fertilizers made from hazardous wastes, or hazardous secondary materials that are excluded under Subsection R315-261-4(a)(20), provided that:

(i) The fertilizers meet the following contaminant limits:

(A) For metal contaminants:

TABLE

Constituent	Maximum Allowable Total Concentration in Fertilizer, per Unit (1%) of Zinc ppm)
Arsenic	0.3
Cadmium	1.4
Chromium	0.6
Lead	2.8
Mercury	0.3

(B) For dioxin contaminants the fertilizer shall contain no more than eight (8) parts per trillion of dioxin, measured as toxic equivalent.

(ii) The manufacturer performs sampling and analysis of the fertilizer product to determine compliance with the contaminant limits for metals no less than every six months, and for dioxins no less than every twelve months. Testing shall also be performed whenever changes occur to manufacturing processes or ingredients that could significantly affect the amounts of contaminants in the fertilizer product. The manufacturer may use any reliable analytical method to demonstrate that no constituent of concern is present in the product at concentrations above the applicable limits. It is the responsibility of the manufacturer to ensure that the sampling and analysis are unbiased, precise, and representative of the product(s) introduced into commerce.

(iii) The manufacturer maintains for no less than three years records of all sampling and analyses performed for purposes of determining compliance with the requirements of Subsection R315-261-4(a)(21)(ii). Such records shall at a minimum include:

(A) The dates and times product samples were taken, and the dates the samples were analyzed;

(B) The names and qualifications of the person(s) taking the samples;

(C) A description of the methods and equipment used to take the samples;

(D) The name and address of the laboratory facility at which analyses of the samples were performed;

(E) A description of the analytical methods used, including any cleanup and sample preparation methods; and

(F) All laboratory analytical results used to determine compliance with the contaminant limits specified in this Subsection R315-261-4(a)(21).

(22) Used cathode ray tubes (CRTs)

(i) Used, intact CRTs as defined in Section R315-260-10 are not solid wastes within the United States unless they are disposed, or unless they are speculatively accumulated as defined in Subsection R315-261-1(c)(8) by CRT collectors or glass processors.

(ii) Used, intact CRTs as defined in Section R315-260-10 are not solid wastes when exported for recycling provided that they meet the requirements of Section R315-261-40.

(iii) Used, broken CRTs as defined in Section R315-260-10 are not solid wastes provided that they meet the requirements of Section R315-261-39.

(iv) Glass removed from CRTs is not a solid waste provided that it meets the requirements of Section R315-261-39(c).

(23) Hazardous secondary material generated and legitimately reclaimed within the United States or its territories and under the control of the generator, provided that the material complies with Subsections R315-261-4(a)(23)(i) and (ii):

(i)(A) The hazardous secondary material is generated and reclaimed at the generating facility, for purposes of this definition, generating facility means all contiguous property owned, leased, or otherwise controlled by the hazardous secondary material generator; or

(B) The hazardous secondary material is generated and reclaimed at different facilities, if the reclaiming facility is controlled by the generator or if both the generating facility and the reclaiming facility are controlled by a person as defined in Section R315-260-10, and if the generator provides one of the following certifications: "on behalf of (insert generator facility name), I certify that this facility will send the indicated hazardous secondary material to (insert reclaimer facility name), which is controlled by (insert generator facility name) and that (insert name of either facility) has acknowledged full responsibility for the safe management of the hazardous secondary material," or "on behalf of (insert generator facility name), I certify that this facility will send the indicated hazardous secondary material to (insert reclaimer facility name), that both facilities are under common control, and that (insert name of either facility) has acknowledged full responsibility for the safe management of the hazardous secondary material." For purposes of this paragraph, "control" means the power to direct the policies of the facility, whether by the ownership of stock, voting rights, or otherwise, except that contractors who operate facilities on behalf of a different person as defined in Section R315-260-10 shall not be deemed to "control" such facilities. The generating and receiving facilities shall both maintain at their facilities for no less than three years records of hazardous secondary materials sent or received under this exclusion. In both cases, the records shall contain the name of the transporter, the date of the shipment, and the type and quantity of the hazardous secondary material shipped or received under the exclusion. These requirements may be satisfied by routine business records, e.g., financial records, bills of lading, copies of DOT shipping papers, or electronic confirmations; or

(C) The hazardous secondary material is generated pursuant to a written contract between a tolling contractor and a toll manufacturer and is reclaimed by the tolling contractor, if the tolling contractor certifies the following: "On behalf of (insert tolling contractor name), I certify that (insert tolling contractor name) has a written contract with (insert toll manufacturer name) to manufacture (insert name of product or intermediate) which is made from specified unused materials, and that (insert tolling contractor name) will reclaim the hazardous secondary materials generated during this manufacture. On behalf of (insert tolling contractor name), I also certify that (insert tolling contractor name) retains ownership of, and responsibility for, the hazardous secondary materials that are generated during the course of the manufacture, including any releases of hazardous secondary materials that occur during the manufacturing process". The tolling contractor shall maintain at its facility for no less than three years records of hazardous secondary materials received pursuant to its written contract with the tolling manufacturer, and the tolling manufacturer shall maintain at its facility for no less than three years records of hazardous secondary materials shipped pursuant to its written contract with the tolling contractor. In both cases, the records shall contain the name of the transporter, the date of the shipment, and the type and quantity of the hazardous secondary material shipped or received pursuant to the written contract. These requirements may be satisfied by routine business records, e.g., financial records, bills of lading, copies of DOT shipping papers, or electronic confirmations. For purposes of Subsection R315-261-4(a)(23)(i)(C), tolling contractor means a person who arranges for the production of a product or intermediate made from specified unused materials through a written contract with a toll manufacturer. Toll manufacturer means a person who produces a product or intermediate made from specified unused materials pursuant to a written contract with a tolling contractor.

(ii)(A) The hazardous secondary material is contained as defined in Section R315-260-10. A hazardous secondary material released to the environment is discarded and a solid waste unless it is immediately recovered for the purpose of reclamation. Hazardous secondary material managed in a unit with leaks or other continuing or intermittent unpermitted releases is discarded and a solid waste.

(B) The hazardous secondary material is not speculatively accumulated, as defined in Subsection R315-261-1(c)(8).

(C) Notice is provided as required by Section R315-260-42.

(D) The material is not otherwise subject to material-specific management conditions under Subsection R315-261-4(a) when reclaimed, and it is not a spent lead-acid battery, see Sections R315-266-80 and R315-273-2.

(E) Persons performing the recycling of hazardous secondary materials under this exclusion shall maintain documentation of their legitimacy determination on-site. Documentation shall be a written description of how the recycling meets all three factors in Subsection R315-260-43(a) and how the factor in Subsection R315-260-43(b) was considered. Documentation shall be maintained for three years after the recycling operation has ceased.

(F) The emergency preparedness and response requirements found in Sections R315-261-400, 410, 411 and 420 are met.

(24) Hazardous secondary material that is generated and then transferred to another person for the purpose of reclamation is not a solid waste, provided that:

(i) The material is not speculatively accumulated, as defined in Subsection R315-261-1(c)(8);

(ii) The material is not handled by any person or facility other than the hazardous secondary material generator, the transporter, an intermediate facility or a reclaimer, and, while in transport, is not stored for more than 10 days at a transfer facility, as defined in Section R315-260-10, and is packaged according to applicable Department of Transportation regulations at 49 CFR parts 173, 178, and 179 while in transport;

(iii) The material is not otherwise subject to material-specific management conditions under Subsection R315-261-4(a) when reclaimed, and it is not a spent lead-acid battery, see Sections R315-266-80 and R315-273-2;

(iv) The reclamation of the material is legitimate, as specified under Section R315-260-43;

(v) The hazardous secondary material generator satisfies all of the following conditions:

(A) The material shall be contained as defined in Section R315-260-10. A hazardous secondary material released to the environment is discarded and a solid waste unless it is immediately recovered for the purpose of recycling. Hazardous secondary material managed in a unit with leaks or other continuing releases is discarded and a solid waste.

(B) Prior to arranging for transport of hazardous secondary materials to a reclamation facility (or facilities) where the management of the hazardous secondary materials is not addressed under a hazardous waste part B permit or interim status standards, the hazardous secondary material generator shall make reasonable efforts to ensure that each reclaimer intends to properly and legitimately reclaim the hazardous secondary material and not discard it, and that each reclaimer will manage the hazardous secondary material in a manner that is protective of human health and the environment. If the hazardous secondary material will be passing through an intermediate facility where the management of the hazardous secondary materials is not addressed under a hazardous waste part B permit or interim status standards, the hazardous secondary material generator shall make contractual arrangements with the intermediate facility to ensure that the hazardous secondary material is sent to the reclamation facility identified by the hazardous secondary material generator, and the hazardous secondary material generator shall perform reasonable efforts to ensure that the intermediate facility will manage the hazardous secondary material in a manner that is protective of human health and the environment. Reasonable efforts shall be repeated at a minimum of every three years for the hazardous secondary material generator to claim the exclusion and to send the hazardous secondary materials to each reclaimer and any intermediate facility. In making these reasonable efforts, the generator may use any credible evidence available, including information gathered by the hazardous secondary material generator, provided by the reclaimer or intermediate facility, and/or provided by a third party. The hazardous secondary material generator shall affirmatively answer all of the following questions for each reclamation facility and any intermediate facility:

(I) Does the available information indicate that the reclamation process is legitimate pursuant to Section R315-260-43? In answering this question, the hazardous secondary material generator can rely on their existing knowledge of the physical and chemical properties of the hazardous secondary material, as well as information from other sources including the reclamation facility and audit reports about the reclamation process.

(II) Does the publicly available information indicate that the reclamation facility and any intermediate facility that is used by the hazardous secondary material generator notified the appropriate authorities of hazardous secondary materials reclamation activities pursuant to Section R315-260-42 and have they notified the appropriate authorities that the financial assurance condition is satisfied per Subsection R315-261-4(a)(24)(vi)(F)? In answering these questions, the hazardous secondary material generator can rely on the available information documenting the reclamation facility's and any intermediate facility's compliance with the notification requirements per Section R315-260-42, including the requirement in Subsection R315-260-42(a)(5) to notify the Director whether the reclaimer or intermediate facility has financial assurance.

(III) Does publicly available information indicate that the reclamation facility or any intermediate facility that is used by the hazardous secondary material generator has not had any formal enforcement actions taken against the facility in the previous three years for violations of Sections R315-260 through 268, 270, and 273 and has not been classified as a significant non-complier with Sections R315-260 through 268, 270, and 273? In answering this question, the hazardous secondary material generator can rely on the publicly available information from EPA or the state. If the reclamation facility or any intermediate facility that is used by the hazardous secondary material generator has had a formal enforcement action taken against the facility in the previous three years for violations of Sections R315-260 through 268, 270, and 273 and has been classified as a significant non-complier with Sections R315-260 through 268, 270, and 273, does the hazardous secondary material generator have credible evidence that the facilities will manage the hazardous secondary materials properly? In answering this question, the hazardous secondary material generator can obtain additional information from EPA, the state, or the facility itself that the facility has addressed the violations, taken remedial steps to address the violations and prevent future violations, or that the violations are not relevant to the proper management of the hazardous secondary materials.

(IV) Does the available information indicate that the reclamation facility and any intermediate facility that is used by the hazardous secondary material generator have the equipment and trained personnel to safely recycle the hazardous secondary material? In answering this question, the generator may rely on a description by the reclamation facility or by an independent third party of the equipment and trained personnel to be used to recycle the generator's hazardous secondary material.

(V) If residuals are generated from the reclamation of the excluded hazardous secondary materials, does the reclamation facility have the permits required (if any) to manage the residuals? If not, does the reclamation facility have a contract with an appropriately permitted facility to dispose of the residuals? If not, does the hazardous secondary material generator have credible evidence that the residuals will be managed in a manner that is protective of human health and the environment? In answering these questions, the hazardous secondary material generator can rely on publicly available information from EPA or the state, or information provided by the facility itself.

(C) The hazardous secondary material generator shall maintain for a minimum of three years documentation and certification that reasonable efforts were made for each reclamation facility and, if applicable, intermediate facility where the management of the hazardous secondary materials is not addressed under a hazardous waste part B permit or interim status standards prior to transferring hazardous secondary material. Documentation and certification shall be made available upon request by the Director within 72 hours, or within a longer period of time as specified by the Director. The certification statement shall:

(I) Include the printed name and official title of an authorized representative of the hazardous secondary material generator company, the authorized representative's signature, and the date signed;

(II) Incorporate the following language: "I hereby certify in good faith and to the best of my knowledge that, prior to arranging for transport of excluded hazardous secondary materials to (insert name(s) of reclamation facility and any intermediate facility), reasonable efforts were made in accordance with Subsection R315-261-4(a)(24)(v)(B) to ensure that the hazardous secondary materials would be recycled legitimately, and otherwise managed in a manner that is protective of human health and the environment, and that such efforts were based on current and accurate information."

(D) The hazardous secondary material generator shall maintain at the generating facility for no less than three years records of all off-site shipments of hazardous secondary materials. For each shipment, these records shall, at a minimum, contain the following information:

(I) Name of the transporter and date of the shipment;

(II) Name and address of each reclaimer and, if applicable, the name and address of each intermediate facility to which the hazardous secondary material was sent;

(III) The type and quantity of hazardous secondary material in the shipment.

(E) The hazardous secondary material generator shall maintain at the generating facility for no less than three years confirmations of receipt from each reclaimer and, if applicable, each intermediate facility for all off-site shipments of hazardous secondary materials. Confirmations of receipt shall include the name and address of the reclaimer, or intermediate facility, the type and quantity of the hazardous secondary materials received and the date which the hazardous secondary materials were received. This requirement may be satisfied by routine business records, e.g., financial records, bills of lading, copies of DOT shipping papers, or electronic confirmations of receipt;

(F) The hazardous secondary material generator shall comply with the emergency preparedness and response conditions in Sections R315-261-400, 410, 411, and 420.

(vi) Reclaimers of hazardous secondary material excluded from regulation under this exclusion and intermediate facilities as defined in Section R315-260-10 satisfy all of the following conditions:

(A) The reclaimer and intermediate facility shall maintain at its facility for no less than three years records of all shipments of hazardous secondary material that were received at the facility and, if applicable, for all shipments of hazardous secondary materials that were received and subsequently sent off-site from the facility for further reclamation. For each shipment, these records shall at a minimum contain the following information:

(I) Name of the transporter and date of the shipment;

(II) Name and address of the hazardous secondary material generator and, if applicable, the name and address of the reclaimer or intermediate facility which the hazardous secondary materials were received from;

(III) The type and quantity of hazardous secondary material in the shipment; and

(IV) For hazardous secondary materials that, after being received by the reclaimer or intermediate facility, were subsequently transferred off-site for further reclamation, the name and address of the, subsequent, reclaimer and, if applicable, the name and address of each intermediate facility to which the hazardous secondary material was sent.

(B) The intermediate facility shall send the hazardous secondary material to the reclaimer(s) designated by the hazardous secondary materials generator.

(C) The reclaimer and intermediate facility shall send to the hazardous secondary material generator confirmations of receipt for all off-site shipments of hazardous secondary materials. Confirmations of receipt shall include the name and address of the reclaimer, or intermediate facility, the type and quantity of the hazardous secondary materials received and the date which the hazardous secondary materials were received. This requirement may be satisfied by routine business records, e.g., financial records, bills of lading, copies of DOT shipping papers, or electronic confirmations of receipt.

(D) The reclaimer and intermediate facility shall manage the hazardous secondary material in a manner that is at least as protective as that employed for analogous raw material and shall be contained. An "analogous raw material" is a raw material for which a hazardous secondary material is a substitute and serves the same function and has similar physical and chemical properties as the hazardous secondary material.

(E) Any residuals that are generated from reclamation processes shall be managed in a manner that is protective of human health and the environment. If any residuals exhibit a hazardous characteristic according to Sections R315-261-20 through 24, or if they themselves are specifically listed in Sections R315-261-30 through 35, such residuals are hazardous wastes and shall be managed in accordance with the applicable requirements of Rules R315-260 through 266, 268, and 270.

(F) The reclaimer and intermediate facility have financial assurance as required under Sections R315-261-140 through 151,

(vii) In addition, all persons claiming the exclusion under Subsection R315-261-4(a)(24) provide notification as required under Section R315-260-42.

(25) Hazardous secondary material that is exported from the United States and reclaimed at a reclamation facility located in a foreign country is not a solid waste, provided that the hazardous secondary material generator complies with the applicable requirements of Subsection R315-261-4(a)(24)(i)-(v), excepting Subsection R315-261-4(a)(24)(v)(B)(2) for foreign reclaimers and foreign intermediate facilities, and that the hazardous secondary material generator also complies with the following requirements:

(i) Notify EPA of an intended export before the hazardous secondary material is scheduled to leave the United States. A complete notification shall be submitted at least sixty days before the initial shipment is intended to be shipped off-site. This notification may cover export activities extending over a twelve month or lesser period. The notification shall be in writing, signed by the hazardous secondary material generator, and include the following information:

(A) Name, mailing address, telephone number and EPA ID number, if applicable, of the hazardous secondary material generator;

(B) A description of the hazardous secondary material and the EPA hazardous waste number that would apply if the hazardous secondary material was managed as hazardous waste and the U.S. DOT proper shipping name, hazard class and ID number, UN/NA, for each hazardous secondary material as identified in 49 CFR parts 171 through 177;

(C) The estimated frequency or rate at which the hazardous secondary material is to be exported and the period of time over which the hazardous secondary material is to be exported;

(D) The estimated total quantity of hazardous secondary material;

(E) All points of entry to and departure from each foreign country through which the hazardous secondary material will pass;

(F) A description of the means by which each shipment of the hazardous secondary material will be transported, for example mode of transportation vehicle including air, highway, rail and water, and types of containers including drums, boxes and tanks;

(G) A description of the manner in which the hazardous secondary material will be reclaimed in the country of import;

(H) The name and address of the reclaimer, any intermediate facility and any alternate reclaimer and intermediate facilities; and

(I) The name of any countries of transit through which the hazardous secondary material will be sent and a description of the approximate length of time it will remain in such countries and the nature of its handling while there, for purposes of this section, the terms "EPA Acknowledgement of Consent", "country of import" and

"country of transit" are used as defined in 40 CFR 262.81 with the exception that the terms in Section R315-261-4 refer to hazardous secondary materials, rather than hazardous waste:

(ii) Notifications shall be submitted electronically using EPA's Waste Import Export Tracking System, WIETS, or its successor system.

(iii) Except for changes to the telephone number in Subsection R315-261-4(a)(25)(i)(A) and decreases in the quantity of hazardous secondary material indicated pursuant to Subsection R315-261-4(a)(25)(i)(D), when the conditions specified on the original notification change, including any exceedance of the estimate of the quantity of hazardous secondary material specified in the original notification, the hazardous secondary material generator shall provide EPA with a written renotification of the change. The shipment cannot take place until consent of the country of import to the changes, except for changes to Subsection R315-261-4(a)(25)(i)(I) and in the ports of entry to and departure from countries of transit pursuant to Subsection R315-261-4(a)(25)(i)(E), has been obtained and the hazardous secondary material generator receives from EPA an EPA Acknowledgment of Consent reflecting the country of import's consent to the changes.

(iv) Upon request by EPA, the hazardous secondary material generator shall furnish to EPA any additional information which a country of import requests in order to respond to a notification.

(v) EPA will provide a complete notification to the country of import and any countries of transit. A notification is complete when EPA receives a notification which EPA determines satisfies the requirements of Subsection R315-261-4(a)(25)(i). Where a claim of confidentiality is asserted with respect to any notification information required by Subsection R315-261-4(a)(25)(i), EPA may find the notification not complete until any such claim is resolved in accordance with 40 CFR 260.2.

(vi) The export of hazardous secondary material under Subsection R315-261-4(a)(25) is prohibited unless the country of import consents to the intended export. When the country of import consents in writing to the receipt of the hazardous secondary material, EPA will send an EPA Acknowledgment of Consent to the hazardous secondary material generator. Where the country of import objects to receipt of the hazardous secondary material or withdraws a prior consent, EPA will notify the hazardous secondary material generator in writing. EPA will also notify the hazardous secondary material generator of any responses from countries of transit.

(vii) For exports to OECD Member countries, the receiving country may respond to the notification using tacit consent. If no objection has been lodged by any country of import or countries of transit to a notification provided pursuant to Subsection R315-261-4(a)(25)(i) within thirty days after the date of issuance of the acknowledgement of receipt of notification by the competent authority of the country of import, the transboundary movement may commence. In such cases, EPA will send an EPA Acknowledgment of Consent to inform the hazardous secondary material generator that the country of import and any relevant countries of transit have not objected to the shipment, and are thus presumed to have consented tacitly. Tacit consent expires one calendar year after the close of the thirty day period; renotification and renewal of all consents is required for exports after that date.

(viii) A copy of the EPA Acknowledgment of Consent shall accompany the shipment. The shipment shall conform to the terms of the EPA Acknowledgment of Consent.

(ix) If a shipment cannot be delivered for any reason to the reclaimer, intermediate facility or the alternate reclaimer or alternate intermediate facility, the hazardous secondary material generator shall re-notify EPA of a change in the conditions of the original notification to allow shipment to a new reclaimer in accordance with Subsection R315-261-4(a)(25)(iii) and obtain another EPA Acknowledgment of Consent.

(x) Hazardous secondary material generators shall keep a copy of each notification of intent to export and each EPA Acknowledgment of Consent for a period of three years following receipt of the EPA Acknowledgment of Consent. They may satisfy this recordkeeping requirement by retaining electronically submitted notifications or electronically generated Acknowledgements in their account on EPA's Waste Import Export Tracking System, WIETS, or its successor system, provided that such copies are readily available for viewing and production if requested by any EPA or authorized state inspector. No hazardous secondary material generator may be held liable for the inability to produce a notification or Acknowledgement for inspection under Subsection R315-261-4(a)(25) if they can demonstrate that the inability to produce such copies are due exclusively to technical difficulty with EPA's Waste Import Export Tracking System, WIETS, or its successor system for which the hazardous secondary material generator bears no responsibility.

(xi) Hazardous secondary material generators shall file with the Administrator no later than March 1 of each year, a report summarizing the types, quantities, frequency and ultimate destination of all hazardous secondary materials exported during the previous calendar year. Annual reports shall be submitted electronically using EPA's Waste Import Export Tracking System, WIETS, or its successor system. Such reports shall include the following information:

(A) Name, mailing and site address, and EPA ID number, if applicable, of the hazardous secondary material generator;

(B) The calendar year covered by the report;

(C) The name and site address of each reclaimer and intermediate facility;

(D) By reclaimer and intermediate facility, for each hazardous secondary material exported, a description of the hazardous secondary material and the EPA hazardous waste number that would apply if the hazardous secondary material was managed as hazardous waste, the DOT hazard class, the name and U.S. EPA ID number, where applicable, for each transporter used, the total amount of hazardous secondary material shipped and the number of shipments pursuant to each notification;

(E) A certification signed by the hazardous secondary material generator which states: "I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment."

(xii) All persons claiming an exclusion under Subsection R315-261-4(a)(25) shall provide notification as required by Section R315-260-42.

(26) Solvent-contaminated wipes that are sent for cleaning and reuse are not solid wastes from the point of generation, provided that

(i) The solvent-contaminated wipes, when accumulated, stored, and transported, are contained in non-leaking, closed containers that are labeled "Excluded Solvent-Contaminated Wipes." The containers shall be able to contain free liquids, should free liquids occur. During accumulation, a container is considered closed when there is complete contact between the fitted lid and the rim, except when it is necessary to add or remove solvent-contaminated wipes. When the container is full, or when the solvent-contaminated wipes are no longer being accumulated, or when the container is being transported, the container shall be sealed with all lids properly and securely affixed to the container and all openings tightly bound or closed sufficiently to prevent leaks and emissions;

(ii) The solvent-contaminated wipes may be accumulated by the generator for up to 180 days from the start date of accumulation for each container prior to being sent for cleaning;

(iii) At the point of being sent for cleaning on-site or at the point of being transported off-site for cleaning, the solvent-contaminated wipes shall contain no free liquids as defined in Section R315-260-10.

(iv) Free liquids removed from the solvent-contaminated wipes or from the container holding the wipes shall be managed according to the applicable regulations found in Rules R315-260 through 266, 268, 270 and 273;

(v) Generators shall maintain at their site the following documentation:

(A) Name and address of the laundry or dry cleaner that is receiving the solvent-contaminated wipes;

(B) Documentation that the 180-day accumulation time limit in Subsection R315-261-4(a)(26)(ii) is being met;

(C) Description of the process the generator is using to ensure the solvent-contaminated wipes contain no free liquids at the point of being laundered or dry cleaned on-site or at the point of being transported off-site for laundering or dry cleaning;

(vi) The solvent-contaminated wipes are sent to a laundry or dry cleaner whose discharge, if any, is regulated under sections 301 and 402 or section 307 of the Clean Water Act.

(27) Hazardous secondary material that is generated and then transferred to another person for the purpose of remanufacturing is not a solid waste, provided that:

(i) The hazardous secondary material consists of one or more of the following spent solvents: Toluene, xylenes, ethylbenzene, 1,2,4-trimethylbenzene, chlorobenzene, n-hexane, cyclohexane, methyl tert-butyl ether, acetonitrile, chloroform, chloromethane, dichloromethane, methyl isobutyl ketone, NN-dimethylformamide, tetrahydrofuran, n-butyl alcohol, ethanol, and/or methanol;

(ii) The hazardous secondary material originated from using one or more of the solvents listed in Subsection R315-261-4(a)(27)(i) in a commercial grade for reacting, extracting, purifying, or blending chemicals, or for rinsing out the process lines associated with these functions; in the pharmaceutical manufacturing, NAICS 325412; basic organic chemical manufacturing, NAICS 325199; plastics and resins manufacturing, NAICS 325211; and/or the paints and coatings manufacturing sectors, NAICS 325510.

(iii) The hazardous secondary material generator sends the hazardous secondary material spent solvents listed in Subsection R315-261-4(a)(27)(i) to a remanufacturer in the pharmaceutical manufacturing, NAICS 325412; basic organic chemical manufacturing, NAICS 325199; plastics and resins manufacturing, NAICS 325211; and/or the paints and coatings manufacturing sectors, NAICS 325510.

(iv) After remanufacturing one or more of the solvents listed in Subsection R315-261-4(a)(27)(i), the use of the remanufactured solvent shall be limited to reacting, extracting, purifying, or blending chemicals, or for rinsing out the process lines associated with these functions, in the pharmaceutical manufacturing, NAICS 325412; basic organic chemical manufacturing, NAICS 325199; plastics and resins manufacturing, NAICS 325211; and the paints and coatings manufacturing sectors, NAICS 325510; or to using them as ingredients in a product. These allowed uses correspond to chemical functional uses enumerated under the Chemical Data Reporting Rule of the Toxic Substances Control Act, 40 CFR parts 704, 710-711, including Industrial Function Codes U015, solvents consumed in a reaction to produce other chemicals, and U030, solvents become part of the mixture;

(v) After remanufacturing one or more of the solvents listed in Subsection R315-261-4(a)(27)(i), the use of the remanufactured solvent does not involve cleaning or degreasing oil, grease, or similar material from textiles, glassware, metal surfaces, or other articles. (These disallowed continuing uses correspond to chemical functional uses in Industrial Function Code U029 under the Chemical Data Reporting Rule of the Toxics Substances Control Act.); and

(vi) Both the hazardous secondary material generator and the remanufacturer shall:

(A) Notify the Director and update the notification every two years per Section R315-260-42;

(B) Develop and maintain an up-to-date remanufacturing plan which identifies:

(I) The name, address and EPA ID number of the generator(s) and the remanufacturer(s),

(II) The types and estimated annual volumes of spent solvents to be remanufactured,

(III) The processes and industry sectors that generate the spent solvents,

(IV) The specific uses and industry sectors for the remanufactured solvents, and

(V) A certification from the remanufacturer stating "on behalf of (insert remanufacturer facility name), I certify that this facility is a remanufacturer under pharmaceutical manufacturing, NAICS 325412; basic organic chemical manufacturing, NAICS 325199; plastics and resins manufacturing, NAICS 325211; and/or the paints and coatings manufacturing sectors, NAICS 325510; and will accept the spent solvent(s) for the sole purpose of remanufacturing into commercial-grade solvent(s) that will be used for reacting, extracting, purifying, or blending chemicals, or for rinsing out the process lines associated with these functions, or for use as product ingredient(s). I also certify that the remanufacturing equipment, vents, and tanks are equipped with and are operating air emission controls in compliance with the appropriate Clean Air Act regulations under 40 CFR part 60, part 61 or part 63, or, absent such Clean Air Act standards for the particular operation or piece of equipment covered by the remanufacturing exclusion, are in compliance with the appropriate standards in Sections R315-261-1030 through 1035, 1050 through 1064 and 1080 through 1089";

(C) Maintain records of shipments and confirmations of receipts for a period of three years from the dates of the shipments;

(D) Prior to remanufacturing, store the hazardous spent solvents in tanks or containers that meet technical standards found in Sections R315-261-17- through 179 and 190 through 200, with the tanks and containers being labeled or otherwise having an immediately available record of the material being stored;

(E) During remanufacturing, and during storage of the hazardous secondary materials prior to remanufacturing, the remanufacturer certifies that the remanufacturing equipment, vents, and tanks are equipped with and are operating air emission controls in compliance with the appropriate Clean Air Act regulations under 40 CFR part 60, part 61 or part 63; or, absent such Clean Air Act standards for the particular operation or piece of equipment covered by the remanufacturing exclusion, are in compliance with the appropriate standards in Sections R315-261-1030 through 1035, 1050 through 1064 and 1080 through 1089; and

(F) Meet the requirements prohibiting speculative accumulation per Subsection R315-261-1(c)(8).

(b) Solid wastes which are not hazardous wastes. The following solid wastes are not hazardous wastes:

(1) Household waste, including household waste that has been collected, transported, stored, treated, disposed, recovered, e.g., refuse-derived fuel, or reused. "Household waste" means any material, including garbage, trash and sanitary wastes in septic tanks, derived from households, including single and multiple residences, hotels and motels, bunkhouses, ranger stations, crew quarters, campgrounds, picnic grounds and day-use recreation areas. A resource recovery facility managing municipal solid waste shall not be deemed to be treating, storing, disposing of, or otherwise managing hazardous wastes for the purposes of regulation under this subtitle, if such facility:

(i) Receives and burns only

(A) Household waste, from single and multiple dwellings, hotels, motels, and other residential sources, and

(B) Solid waste from commercial or industrial sources that does not contain hazardous waste; and

(ii) Such facility does not accept hazardous wastes and the owner or operator of such facility has established contractual requirements or other appropriate notification or inspection procedures to assure that hazardous wastes are not received at or burned in such facility.

(2) Solid wastes generated by any of the following and which are returned to the soils as fertilizers:

(i) The growing and harvesting of agricultural crops.

(ii) The raising of animals, including animal manures.

(3) Mining overburden returned to the mine site.

(4)(i) Fly ash waste, bottom ash waste, slag waste, and flue gas emission control waste generated primarily from the combustion of coal or other fossil fuels, except as provided by Section R315-266-112 for facilities that burn or process hazardous waste.

(ii) The following wastes generated primarily from processes that support the combustion of coal or other fossil fuels that are co-disposed with the wastes in Subsection R315-261-4(b)(4)(i), except as provided by Section R315-266-112 for facilities that burn or process hazardous waste:

(A) Coal pile run-off. For purposes of Subsection R315-261-4(b)(4), coal pile run-off means any precipitation that drains off coal piles.

(B) Boiler cleaning solutions. For purposes of Subsection R315-261-4(b)(4), boiler cleaning solutions means water solutions and chemical solutions used to clean the fire-side and water-side of the boiler.

(C) Boiler blowdown. For purposes of Subsection R315-261-4(b)(4), boiler blowdown means water purged from boilers used to generate steam.

(D) Process water treatment and demineralizer regeneration wastes. For purposes of Subsection R315-261-4(b)(4), process water treatment and demineralizer regeneration wastes means sludges, rinses, and spent resins generated from processes to remove dissolved gases, suspended solids, and dissolved chemical salts from combustion system process water.

(E) Cooling tower blowdown. For purposes of Subsection R315-261-4(b)(4), cooling tower blowdown means water purged from a closed cycle cooling system. Closed cycle cooling systems include cooling towers, cooling ponds, or spray canals.

(F) Air heater and precipitator washes. For purposes of Subsection R315-261-4(b)(4), air heater and precipitator washes means wastes from cleaning air preheaters and electrostatic precipitators.

(G) Effluents from floor and yard drains and sumps. For purposes of Subsection R315-261-4(b)(4), effluents from floor and yard drains and sumps means wastewaters, such as wash water, collected by or from floor drains, equipment drains, and sumps located inside the power plant building; and wastewaters, such as rain runoff, collected by yard drains and sumps located outside the power plant building.

(H) Wastewater treatment sludges. For purposes of Subsection R315-261-4(b)(4), wastewater treatment sludges refers to sludges generated from the treatment of wastewaters specified in Subsections R315-261-4(b)(4)(ii)(A) through (F).

(5) Drilling fluids, produced waters, and other wastes associated with the exploration, development, or production of crude oil, natural gas or geothermal energy.

(6)(i) Wastes which fail the test for the Toxicity Characteristic because chromium is present or are listed in Sections R315-261-30 through R316-261-35 due to the presence of chromium, which do not fail the test for the Toxicity Characteristic for any other constituent or are not listed due to the presence of any other constituent, and which do not fail the test for any other characteristic, if it is shown by a waste generator or by waste generators that:

(A) The chromium in the waste is exclusively, or nearly exclusively, trivalent chromium; and

(B) The waste is generated from an industrial process which uses trivalent chromium exclusively (or nearly exclusively) and the process does not generate hexavalent chromium; and

(C) The waste is typically and frequently managed in non-oxidizing environments.

(ii) Specific wastes which meet the standard in Subsections R315-261-4(b)(6)(i)(A), (B), and (C), so long as they do not fail the test for the toxicity characteristic for any other constituent, and do not exhibit any other characteristic, are:

(A) Chrome (blue) trimmings generated by the following subcategories of the leather tanning and finishing industry; hair pulp/chrome tan/retan/wet finish; hair save/chrome tan/retan/wet finish; retan/wet finish; no beamhouse; through-the-blue; and shearling.

(B) Chrome (blue) shavings generated by the following subcategories of the leather tanning and finishing industry: Hair pulp/chrome tan/retan/wet finish; hair save/chrome tan/retan/wet

finish; retan/wet finish; no beamhouse; through-the-blue; and shearling.

(C) Buffing dust generated by the following subcategories of the leather tanning and finishing industry; hair pulp/chrome tan/retan/wet finish; hair save/chrome tan/retan/wet finish; retan/wet finish; no beamhouse; through-the-blue.

(D) Sewer screenings generated by the following subcategories of the leather tanning and finishing industry: Hair pulp/chrome tan/retan/wet finish; hair save/chrome tan/retan/wet finish; retan/wet finish; no beamhouse; through-the-blue; and shearling.

(E) Wastewater treatment sludges generated by the following subcategories of the leather tanning and finishing industry: Hair pulp/chrome tan/retan/wet finish; hair save/chrome tan/retan/wet finish; retan/wet finish; no beamhouse; through-the-blue; and shearling.

(F) Wastewater treatment sludges generated by the following subcategories of the leather tanning and finishing industry: Hair pulp/chrome tan/retan/wet finish; hair save/chrome tan/retan/wet finish; and through-the-blue.

(G) Waste scrap leather from the leather tanning industry, the shoe manufacturing industry, and other leather product manufacturing industries.

(H) Wastewater treatment sludges from the production of TiO2 pigment using chromium-bearing ores by the chloride process.

(7) Solid waste from the extraction, beneficiation, and processing of ores and minerals, including coal, phosphate rock, and overburden from the mining of uranium ore, except as provided by Section R315-266-112 for facilities that burn or process hazardous waste.

(i) For purposes of Subsection R315-261-4(b)(7) beneficiation of ores and minerals is restricted to the following activities; crushing; grinding; washing; dissolution; crystallization; filtration; sorting; sizing; drying; sintering; pelletizing; briquetting; calcining to remove water and/or carbon dioxide; roasting, autoclaving, and/or chlorination in preparation for leaching (except where the roasting (and/or autoclaving and/or chlorination)/leaching sequence produces a final or intermediate product that does not undergo further beneficiation or processing); gravity concentration; magnetic separation; electrostatic separation; flotation; ion exchange; solvent extraction; electrowinning; precipitation; amalgamation; and heap, dump, vat, tank, and in situ leaching.

(ii) For the purposes of Subsection R315-261-4(b)(7), solid waste from the processing of ores and minerals includes only the following wastes as generated:

(A) Slag from primary copper processing;

(B) Slag from primary lead processing;

(C) Red and brown muds from bauxite refining;

(D) Phosphogypsum from phosphoric acid production;

(E) Slag from elemental phosphorus production;

(F) Gasifier ash from coal gasification;

(G) Process wastewater from coal gasification;

(H) Calcium sulfate wastewater treatment plant sludge from primary copper processing;

(I) Slag tailings from primary copper processing;

(J) Fluorogypsum from hydrofluoric acid production;

(K) Process wastewater from hydrofluoric acid production;

(L) Air pollution control dust/sludge from iron blast furnaces;

(M) Iron blast furnace slag;

(N) Treated residue from roasting/leaching of chrome ore;

(O) Process wastewater from primary magnesium processing by the anhydrous process;

(P) Process wastewater from phosphoric acid production;

(Q) Basic oxygen furnace and open hearth furnace air pollution control dust/sludge from carbon steel production;

(R) Basic oxygen furnace and open hearth furnace slag from carbon steel production;

(S) Chloride process waste solids from titanium tetrachloride production;

(T) Slag from primary zinc processing.

(iii) A residue derived from co-processing mineral processing secondary materials with normal beneficiation raw materials or with normal mineral processing raw materials remains excluded under Subsection R315-261-4(b) if the owner or operator:

(A) Processes at least 50 percent by weight normal beneficiation raw materials or normal mineral processing raw materials; and,

(B) Legitimately reclaims the secondary mineral processing materials.

(8) Cement kiln dust waste, except as provided by Section R315-266-112 for facilities that burn or process hazardous waste.

(9) Solid waste which consists of discarded arsenical-treated wood or wood products which fails the test for the Toxicity Characteristic for Hazardous Waste Codes D004 through D017 and which is not a hazardous waste for any other reason if the waste is generated by persons who utilize the arsenical-treated wood and wood products for these materials' intended end use.

(10) Petroleum-contaminated media and debris that fail the test for the Toxicity Characteristic of Section R315-261-24, Hazardous Waste Codes D018 through D043 only, and are subject to the corrective action regulations under Section R315-311-202-1 which adopts 40 CFR 280 by reference.

(11) Injected groundwater that is hazardous only because it exhibits the Toxicity Characteristic, Hazardous Waste Codes D018 through D043 only, in Section R315-261-24 that is reinjected through an underground injection well pursuant to free phase hydrocarbon recovery operations undertaken at petroleum refineries, petroleum marketing terminals, petroleum bulk plants, petroleum pipelines, and petroleum transportation spill sites until January 25, 1993. This extension applies to recovery operations in existence, or for which contracts have been issued, on or before March 25, 1991. For groundwater returned through infiltration galleries from such operations at petroleum refineries, marketing terminals, and bulk plants, until October 2, 1991. New operations involving injection wells, beginning after March 25, 1991, will qualify for this compliance date extension, until January 25, 1993, only if:

(i) Operations are performed pursuant to a written state agreement that includes a provision to assess the groundwater and the need for further remediation once the free phase recovery is completed; and

(ii) A copy of the written agreement has been submitted to: Waste Identification Branch (5304), U.S. Environmental Protection Agency, 1200 Pennsylvania Ave., NW., Washington, DC 20460 and the Division of Waste Management and Radiation Control, PO Box 144880, Salt Lake City, UT 84114-4880.

(12) Used chlorofluorocarbon refrigerants from totally enclosed heat transfer equipment, including mobile air conditioning

systems, mobile refrigeration, and commercial and industrial air conditioning and refrigeration systems that use chlorofluorocarbons as the heat transfer fluid in a refrigeration cycle, provided the refrigerant is reclaimed for further use.

(13) Non-terne plated used oil filters that are not mixed with wastes listed in Sections R315-261-30 through R315-261-35 if these oil filters have been gravity hot-drained using one of the following methods:

(i) Puncturing the filter anti-drain back valve or the filter dome end and hot-draining;

(ii) Hot-draining and crushing;

(iii) Dismantling and hot-draining; or

(iv) Any other equivalent hot-draining method that will remove used oil.

(14) Used oil re-refining distillation bottoms that are used as feedstock to manufacture asphalt products.

(15) Leachate or gas condensate collected from landfills where certain solid wastes have been disposed, provided that:

(i) The solid wastes disposed would meet one or more of the listing descriptions for Hazardous Waste Codes K169, K170, K171, K172, K174, K175, K176, K177, K178 and K181 if these wastes had been generated after the effective date of the listing;

(ii) The solid wastes described in Subsection R315-261-4(b)(15)(i) were disposed prior to the effective date of the listing;

(iii) The leachate or gas condensate do not exhibit any characteristic of hazardous waste nor are derived from any other listed hazardous waste;

(iv) Discharge of the leachate or gas condensate, including leachate or gas condensate transferred from the landfill to a POTW by truck, rail, or dedicated pipe, is subject to regulation under sections 307(b) or 402 of the Clean Water Act.

(v) As of February 13, 2001, leachate or gas condensate derived from K169-K172 is no longer exempt if it is stored or managed in a surface impoundment prior to discharge. As of November 21, 2003, leachate or gas condensate derived from K176, K177, and K178 is no longer exempt if it is stored or managed in a surface impoundment prior to discharge. After February 26, 2007, leachate or gas condensate derived from K181 will no longer be exempt if it is stored or managed in a surface impoundment prior to discharge. There is one exception: if the surface impoundment is used to temporarily store leachate or gas condensate in response to an emergency situation, e.g., shutdown of wastewater treatment system, provided the impoundment has a double liner, and provided the leachate or gas condensate is removed from the impoundment and continues to be managed in compliance with the conditions of Subsection R315-261-4(b)(15)(v) after the emergency ends.

(16) Reserved

(17) Reserved

(18) Solvent-contaminated wipes, except for wipes that are hazardous waste due to the presence of trichloroethylene, that are sent for disposal are not hazardous wastes from the point of generation provided that

(i) The solvent-contaminated wipes, when accumulated, stored, and transported, are contained in non-leaking, closed containers that are labeled "Excluded Solvent-Contaminated Wipes." The containers shall be able to contain free liquids, should free liquids occur. During accumulation, a container is considered closed when there is complete contact between the fitted lid and the rim, except when it is necessary to add or remove solvent-contaminated wipes. When the container is full, or when the solvent-contaminated wipes are no longer being accumulated, or when the container is being transported, the container shall be sealed with all lids properly and securely affixed to the container and all openings tightly bound or closed sufficiently to prevent leaks and emissions;

(ii) The solvent-contaminated wipes may be accumulated by the generator for up to 180 days from the start date of accumulation for each container prior to being sent for disposal;

(iii) At the point of being transported for disposal, the solvent-contaminated wipes shall contain no free liquids as defined in Section R315-260-10.

(iv) Free liquids removed from the solvent-contaminated wipes or from the container holding the wipes shall be managed according to the applicable regulations found in Rules R315-260 through 266, 268, 270 and 273;

(v) Generators shall maintain at their site the following documentation:

(A) Name and address of the landfill or combustor that is receiving the solvent-contaminated wipes;

(B) Documentation that the 180 day accumulation time limit in Subsection R315-261-4(b)(18)(ii) is being met;

(C) Description of the process the generator is using to ensure solvent-contaminated wipes contain no free liquids at the point of being transported for disposal;

(vi) The solvent-contaminated wipes are sent for disposal

(A) To a solid waste landfill that:

(1) is regulated under R315-301 through R315-320

(2) is a Class I or V Landfill; and

(3) has a composite liner; or

(B) To a hazardous waste landfill regulated under Rules R315-260 through 266, 268, and 270; or

(C) To a municipal waste combustor or other combustion facility regulated under section 129 of the Clean Air Act or to a hazardous waste combustor, boiler, or industrial furnace regulated under Rule R315-264, Rule R315-265, or Sections R315-266-100 through R315-266-112.

(c) Hazardous wastes which are exempted from certain regulations. A hazardous waste which is generated in a product or raw material storage tank, a product or raw material transport vehicle or vessel, a product or raw material pipeline, or in a manufacturing process unit or an associated non-waste-treatment-manufacturing unit, is not subject to regulation under Rules R315-262 through 265, 268, 270, and 124 or to the notification requirements of section 3010 of RCRA until it exits the unit in which it was generated, unless the unit is a surface impoundment, or unless the hazardous waste remains in the unit more than 90 days after the unit ceases to be operated for manufacturing, or for storage or transportation of product or raw materials.

(d)(1) Samples. Except as provided in Subsection R315-261-4(d)(2), a sample of solid waste or a sample of water, soil, or air, which is collected for the sole purpose of testing to determine its characteristics or composition, is not subject to any requirements of Rules R315-261 through 266, 268 or 270 or 124 or to the notification requirements of Section 3010 of RCRA, when:

(i) The sample is being transported to a laboratory for the purpose of testing; or

(ii) The sample is being transported back to the sample collector after testing; or

(iii) The sample is being stored by the sample collector before transport to a laboratory for testing; or

(iv) The sample is being stored in a laboratory before testing; or

(v) The sample is being stored in a laboratory after testing but before it is returned to the sample collector; or

(vi) The sample is being stored temporarily in the laboratory after testing for a specific purpose (for example, until conclusion of a court case or enforcement action where further testing of the sample may be necessary).

(2) In order to qualify for the exemption in Subsections R315-261-4(d)(1) (i) and (ii), a sample collector shipping samples to a laboratory and a laboratory returning samples to a sample collector shall:

(i) Comply with U.S. Department of Transportation (DOT), U.S. Postal Service (USPS), or any other applicable shipping requirements; or

(ii) Comply with the following requirements if the sample collector determines that DOT, USPS, or other shipping requirements do not apply to the shipment of the sample:

(A) Assure that the following information accompanies the sample:

(I) The sample collector's name, mailing address, and telephone number;

(II) The laboratory's name, mailing address, and telephone number;

(III) The quantity of the sample;

(IV) The date of shipment; and

(V) A description of the sample.

(B) Package the sample so that it does not leak, spill, or vaporize from its packaging.

(3) This exemption does not apply if the laboratory determines that the waste is hazardous but the laboratory is no longer meeting any of the conditions stated in Subsection R315-261-4(d)(1).

(e)(1) Treatability Study Samples. Except as provided in Subsection R315-261-4(e)(2), persons who generate or collect samples for the purpose of conducting treatability studies as defined in Section R315-260-10, are not subject to any requirement of Rules R315-261 through 263 or to the notification requirements of Section 3010 of RCRA, nor are such samples included in the quantity determinations of Section R315-261-5 and Subsection R315-262-34(d) when:

(i) The sample is being collected and prepared for transportation by the generator or sample collector; or

(ii) The sample is being accumulated or stored by the generator or sample collector prior to transportation to a laboratory or testing facility; or

(iii) The sample is being transported to the laboratory or testing facility for the purpose of conducting a treatability study.

(2) The exemption in Subsection R315-261-4(e)(1) is applicable to samples of hazardous waste being collected and shipped for the purpose of conducting treatability studies provided that:

(i) The generator or sample collector uses (in "treatability studies") no more than 10,000 kg of media contaminated with non-acute hazardous waste, 1000 kg of non-acute hazardous waste other than contaminated media, 1 kg of acute hazardous waste, 2500 kg of media contaminated with acute hazardous waste for each process being evaluated for each generated waste stream; and

(ii) The mass of each sample shipment does not exceed 10,000 kg; the 10,000 kg quantity may be all media contaminated with non-acute hazardous waste, or may include 2500 kg of media contaminated with acute hazardous waste, 1000 kg of hazardous waste, and 1 kg of acute hazardous waste; and

(iii) The sample shall be packaged so that it will not leak, spill, or vaporize from its packaging during shipment and the requirements of Subsections R315-261-4(e)(2)(iii)(A) or (B) are met.

(A) The transportation of each sample shipment complies with U.S. Department of Transportation (DOT), U.S. Postal Service (USPS), or any other applicable shipping requirements; or

(B) If the DOT, USPS, or other shipping requirements do not apply to the shipment of the sample, the following information shall accompany the sample:

(I) The name, mailing address, and telephone number of the originator of the sample;

(II) The name, address, and telephone number of the facility that will perform the treatability study;

(III) The quantity of the sample;

(IV) The date of shipment; and

(V) A description of the sample, including its EPA Hazardous Waste Number.

(iv) The sample is shipped to a laboratory or testing facility which is exempt under Subsection R315-261-4(f) or has an appropriate RCRA permit or interim status.

(v) The generator or sample collector maintains the following records for a period ending three years after completion of the treatability study:

(A) Copies of the shipping documents;

(B) A copy of the contract with the facility conducting the treatability study;

(C) Documentation showing:

(I) The amount of waste shipped under this exemption;

(II) The name, address, and EPA identification number of the laboratory or testing facility that received the waste;

(III) The date the shipment was made; and

(IV) Whether or not unused samples and residues were returned to the generator.

(vi) The generator reports the information required under Subsection R315-261-4(e)(2)(v)(C) in its biennial report.

(3) The Director may grant requests on a case-by-case basis for up to an additional two years for treatability studies involving bioremediation. The Director may grant requests on a case-by-case basis for quantity limits in excess of those specified in Subsections R315-261-4(e)(2)(i) and (ii) and Subsection R315-261-4(f)(4), for up to an additional 5000 kg of media contaminated with non-acute hazardous waste, 500 kg of non-acute hazardous waste, 2500 kg of media contaminated with acute hazardous waste and 1 kg of acute hazardous waste:

(i) In response to requests for authorization to ship, store and conduct treatability studies on additional quantities in advance of commencing treatability studies. Factors to be considered in reviewing such requests include the nature of the technology; the type of process, e.g., batch versus continuous; size of the unit undergoing testing, particularly in relation to scale-up considerations; the time/quantity of material required to reach steady state operating conditions; or test design considerations such as mass balance calculations.

(ii) In response to requests for authorization to ship, store and conduct treatability studies on additional quantities after initiation or completion of initial treatability studies, when: There has been an equipment or mechanical failure during the conduct of a treatability

study; there is a need to verify the results of a previously conducted treatability study; there is a need to study and analyze alternative techniques within a previously evaluated treatment process; or there is a need to do further evaluation of an ongoing treatability study to determine final specifications for treatment.

(iii) The additional quantities and timeframes allowed in Subsections R315-261-4(e)(3)(i) and (ii) are subject to all the provisions in Subsections R315-261-4(e)(1) and (e)(2)(iii) through (vi). The generator or sample collector shall apply to the Director and provide in writing the following information:

(A) The reason why the generator or sample collector requires additional time or quantity of sample for treatability study evaluation and the additional time or quantity needed;

(B) Documentation accounting for all samples of hazardous waste from the waste stream which have been sent for or undergone treatability studies including the date each previous sample from the waste stream was shipped, the quantity of each previous shipment, the laboratory or testing facility to which it was shipped, what treatability study processes were conducted on each sample shipped, and the available results on each treatability study;

(C) A description of the technical modifications or change in specifications which will be evaluated and the expected results;

(D) If such further study is being required due to equipment or mechanical failure, the applicant shall include information regarding the reason for the failure or breakdown and also include what procedures or equipment improvements have been made to protect against further breakdowns; and

(E) Such other information that the Director considers necessary.

(f) Samples Undergoing Treatability Studies at Laboratories and Testing Facilities. Samples undergoing treatability studies and the laboratory or testing facility conducting such treatability studies, to the extent such facilities are not otherwise subject to RCRA requirements, are not subject to any requirement of Rules R315-261 through 266, 268 and 270, or to the notification requirements of Section 3010 of RCRA provided that the conditions of Subsection R315-261-4(f)(1) through (11) are met. A mobile treatment unit (MTU) may qualify as a testing facility subject to Subsections R315-261-4(f)(1) through (11). Where a group of MTUs are located at the same site, the limitations specified in Subsections R315-261-4(f)(1) through (11) apply to the entire group of MTUs collectively as if the group were one MTU.

(1) No less than 45 days before conducting treatability studies, the facility notifies the Director, in writing that it intends to conduct treatability studies under Subsection R315-261-4(f).

(2) The laboratory or testing facility conducting the treatability study has an EPA identification number.

(3) No more than a total of 10,000 kg of "as received" media contaminated with non-acute hazardous waste, 2500 kg of media contaminated with acute hazardous waste or 250 kg of other "as received" hazardous waste is subject to initiation of treatment in all treatability studies in any single day. "As received" waste refers to the waste as received in the shipment from the generator or sample collector.

(4) The quantity of "as received" hazardous waste stored at the facility for the purpose of evaluation in treatability studies does not exceed 10,000 kg, the total of which can include 10,000 kg of media contaminated with non-acute hazardous waste, 2500 kg of media contaminated with acute hazardous waste, 1000 kg of non-acute hazardous wastes other than contaminated media, and 1 kg of acute hazardous waste. This quantity limitation does not include treatment materials, including nonhazardous solid waste, added to "as received" hazardous waste.

(5) No more than 90 days have elapsed since the treatability study for the sample was completed, or no more than one year, two years for treatability studies involving bioremediation, have elapsed since the generator or sample collector shipped the sample to the laboratory or testing facility, whichever date first occurs. Up to 500 kg of treated material from a particular waste stream from treatability studies may be archived for future evaluation up to five years from the date of initial receipt. Quantities of materials archived are counted against the total storage limit for the facility.

(6) The treatability study does not involve the placement of hazardous waste on the land or open burning of hazardous waste.

(7) The facility maintains records for three years following completion of each study that show compliance with the treatment rate limits and the storage time and quantity limits. The following specific information shall be included for each treatability study conducted:

(i) The name, address, and EPA identification number of the generator or sample collector of each waste sample;

(ii) The date the shipment was received;

(iii) The quantity of waste accepted;

(iv) The quantity of "as received" waste in storage each day;

(v) The date the treatment study was initiated and the amount of "as received" waste introduced to treatment each day;

(vi) The date the treatability study was concluded;

(vii) The date any unused sample or residues generated from the treatability study were returned to the generator or sample collector or, if sent to a designated facility, the name of the facility and the EPA identification number.

(8) The facility keeps, on-site, a copy of the treatability study contract and all shipping papers associated with the transport of treatability study samples to and from the facility for a period ending three years from the completion date of each treatability study.

(9) The facility prepares and submits a report to the Director, by March 15 of each year, that includes the following information for the previous calendar year:

(i) The name, address, and EPA identification number of the facility conducting the treatability studies;

(ii) The types (by process) of treatability studies conducted;

(iii) The names and addresses of persons for whom studies have been conducted, including their EPA identification numbers;

(iv) The total quantity of waste in storage each day;

(v) The quantity and types of waste subjected to treatability studies;

(vi) When each treatability study was conducted;

(vii) The final disposition of residues and unused sample from each treatability study.

(10) The facility determines whether any unused sample or residues generated by the treatability study are hazardous waste under Section R315-261-3 and, if so, are subject to Rules R315-261 through 268 and 270, unless the residues and unused samples are returned to the sample originator under the Subsection R3315-261-4(e) exemption.

(11) The facility notifies the Director, by letter when the facility is no longer planning to conduct any treatability studies at the site.

(g) Dredged material that is not a hazardous waste. Dredged material that is subject to the requirements of a permit that

has been issued under 404 of the Federal Water Pollution Control Act (33 U.S.C. 1344) or section 103 of the Marine Protection, Research, and Sanctuaries Act of 1972 (33 U.S.C. 1413) is not a hazardous waste. For Subsection R315-261-4(g), the following definitions apply:

(1) The term dredged material has the same meaning as defined in 40 CFR 232.2;

(2) The term permit means:

(i) A permit issued by the U.S. Army Corps of Engineers (Corps) or an approved State under section 404 of the Federal Water Pollution Control Act (33 U.S.C. 1344);

(ii) A permit issued by the Corps under section 103 of the Marine Protection, Research, and Sanctuaries Act of 1972 (33 U.S.C. 1413); or

(iii) In the case of Corps civil works projects, the administrative equivalent of the permits referred to in Subsections R315-261-4(g)(2)(i) and (ii), as provided for in Corps regulations.

(h) Carbon dioxide stream injected for geologic sequestration. Carbon dioxide streams that are captured and transported for purposes of injection into an underground injection well subject to the requirements for Class VI Underground Injection Control wells, including the requirements in Rule R317-7, are not a hazardous waste, provided the following conditions are met:

(1) Transportation of the carbon dioxide stream shall be in compliance with U.S. Department of Transportation requirements, including the pipeline safety laws, 49 U.S.C. 60101 et seq. and regulations, 49 CFR Parts 190-199, of the U.S. Department of Transportation, and pipeline safety regulations adopted and administered by a state authority pursuant to a certification under 49 U.S.C. 60105, as applicable.

(2) Injection of the carbon dioxide stream shall be in compliance with the applicable requirements for Class VI Underground Injection Control wells, including the applicable requirements in Rule R317-7;

(3) No hazardous wastes shall be mixed with, or otherwise co-injected with, the carbon dioxide stream; and

(4)(i) Any generator of a carbon dioxide stream, who claims that a carbon dioxide stream is excluded under Subsection R315-261-4(h), shall have an authorized representative, as defined in Section R315-260-10, sign a certification statement worded as follows: I certify under penalty of law that the carbon dioxide stream that I am claiming to be excluded under Subsection R315-261.4(h) has not been mixed with hazardous wastes, and I have transported the carbon dioxide stream in compliance with, or have contracted with a pipeline operator or transporter to transport the carbon dioxide stream in compliance with, Department of Transportation requirements, including the pipeline safety laws, 49 U.S.C. 60101 et seq., and regulations, 49 CFR Parts 190-199, of the U.S. Department of Transportation, and the pipeline safety regulations adopted and administered by a state authority pursuant to a certification under 49 U.S.C. 60105, as applicable, for injection into a well subject to the requirements for the Class VI Underground Injection Control Program of Rule R317-7.

(ii) Any Class VI Underground Injection Control well owner or operator, who claims that a carbon dioxide stream is excluded under Subsection R315-261-4(h), shall have an authorized representative, as defined in Section R315-260-10, sign a certification statement worded as follows: I certify under penalty of law that the carbon dioxide stream that I am claiming to be excluded under Subsection R315-261-4(h) has not been mixed with, or otherwise co-injected with, hazardous waste at the Underground Injection Control (UIC) Class VI permitted facility, and that injection of the carbon dioxide stream is in compliance with the applicable requirements for UIC Class VI wells, including the applicable requirements in Rule R317-7.

(iii) The signed certification statement shall be kept on-site for no less than three years, and shall be made available within 72 hours of a written request from the Director. The signed certification statement shall be renewed every year that the exclusion is claimed, by having an authorized representative, as defined in Section R315-260-10, annually prepare and sign a new copy of the certification statement within one year of the date of the previous statement. The signed certification statement shall also be readily accessible on the facility's publicly-available Web site, if such Web site exists, as a public notification with the title of "Carbon Dioxide Stream Certification" at the time the exclusion is claimed.

(i) Reserved

(j)(1) Airbag waste at the airbag waste handler or during transport to an airbag waste collection facility or designated facility is not subject to regulation under Rules R315-262 through 268, R315-270 or R315-124, and is not subject to the notification requirements of section 3010 of RCRA provided that:

(i) The airbag waste is accumulated in a quantity of no more than 250 airbag modules or airbag inflators, for no longer than 180 days;

(ii) The airbag waste is packaged in a container designed to address the risk posed by the airbag waste and labeled "Airbag Waste -- Do Not Reuse;"

(iii) The airbag waste is sent directly to either

(A) An airbag waste collection facility in the United States under the control of a vehicle manufacturer or their authorized representative, or under the control of an authorized party administering a remedy program in response to a recall under the National Highway Traffic Safety Administration, or

(B) A designated facility as defined in Section R315-260-10;

(iv) The transport of the airbag waste complies with all applicable U.S. Department of Transportation regulations in 49 CFR part 171 through 180 during transit;

(v) The airbag waste handler maintains at the handler facility for no less than three years records of all off-site shipments of airbag waste and all confirmations of receipt from the receiving facility. For each shipment, these records must, at a minimum, contain the name of the transporter and date of the shipment; name and address of receiving facility; and the type and quantity of airbag waste, i.e., airbag modules or airbag inflators, in the shipment. Confirmations of receipt must include the name and address of the receiving facility; the type and quantity of the airbag waste, i.e., airbag modules and airbag inflators, received; and the date which it was received. Shipping records and confirmations of receipt must be made available for inspection and may be satisfied by routine business records, e.g., electronic or paper financial records, bills of lading, copies of DOT shipping papers, or electronic confirmations of receipt.

(2) Once the airbag waste arrives at an airbag waste collection facility or designated facility, it becomes subject to all applicable hazardous waste regulations, and the facility receiving airbag waste is considered the hazardous waste generator for the purposes of the hazardous waste regulations and must comply with the requirements of Rule R315-262.

(3) Reuse in vehicles of defective airbag modules or defective airbag inflators subject to a recall under the National Highway Traffic Safety Administration is considered sham recycling and prohibited under Subsection R315-261-2(g).

KEY: hazardous waste
Date of Enactment or Last Substantive Amendment: [~~September 14, 2018~~]2019
Authorizing, and Implemented or Interpreted Law: 19-6-105; 19-6-106

Environmental Quality, Waste Management and Radiation Control, Waste Management
R315-262
Hazardous Waste Generator Requirements

NOTICE OF PROPOSED RULE
(Amendment)
DAR FILE NO.: 43528
FILED: 02/14/2019

RULE ANALYSIS

PURPOSE OF THE RULE OR REASON FOR THE CHANGE: In May of 2015, the U.S. Department of Transportation (DOT) announced a national recall of airbag inflators manufactured by Takata due to a defect which has resulted in 15 deaths and at least 250 injuries in the U.S. as of August 2018. This recall affects 19 vehicle manufactures with approximately 60,000,000 to 70,000,000 airbag inflators scheduled for recall. A Preservation Order issued by DOT in February 2015 required Takata to preserve all recalled airbag inflators. EPA issued a memorandum in June of 2017 stating that the recalled airbag inflators were not subject to hazardous waste regulations while being held under the Preservation Order. The EPA clarification states that the recalled inflators would be considered a solid waste once the order was lifted. Airbag inflators meet both the ignitability and reactivity hazardous waste characteristics and therefore, would need to be managed as a hazardous waste. In April of 2018, the Preservation Order was amended requiring Takata to keep only a certain percentage of the inflators allowing the remainder to be disposed. The amended order no longer requires affected vehicle manufacturers to send their recalled airbag inflators to Takata thus allowing the manufacturers to dispose of the inflators on their own. DOT has determined that it is imperative that the recall of these airbag inflators be accelerated because the risk of serious injury or death increases over time because the inflators become more unstable as they age and are exposed to high absolute humidity. It is believed that these rule changes will assist in facilitating the recall acceleration by exempting the collection of airbag waste from hazardous waste requirements so long as certain conditions are met. These rule changes became effective at the federal level on 11/30/2018.

SUMMARY OF THE RULE OR CHANGE: Subsection R315-262-14(a)(5)(xi) was added. This added subsection provides the option for a very small quantity generator deliver airbag waste to an airbag collection facility or a designated facility subject to the requirements of Subsection R315-261-4(j).

STATUTORY OR CONSTITUTIONAL AUTHORIZATION FOR THIS RULE: Section 19-6-104 and Section 19-6-105 and Section 19-6-106

ANTICIPATED COST OR SAVINGS TO:
♦ THE STATE BUDGET: These rule changes will not affect the state budget because no state governmental agency is a vehicle manufacturer subject to provisions of the recall of Takata airbag inflators.
♦ LOCAL GOVERNMENTS: These rule changes will not affect any local government because no local governments are vehicle manufacturers subject to provisions of the recall of Takata airbag inflators.
♦ SMALL BUSINESSES: There are 385 car dealerships (NAICS 4411) in Utah that are small businesses that could be involved in removing and disposing of airbag inflators. These dealerships make up 80.5% of the dealerships in Utah. Most car dealerships are currently very small quantity generators of hazardous waste. With the removal of the DOT Preservation Order protections, a dealership would be required to manage the removed airbag inflators as hazardous waste which could result in dealerships becoming small quantity generators of hazardous waste. These dealerships would in turn incur the costs associated with being small quantity generators (e.g. packaging and labeling, recordkeeping, personnel training, storage, and shipping). Due to the exemptions provided by these rule changes, dealerships will not incur these costs and therefore, could see a cost savings of approximately $81.55 per year. Data to assist in making this determination was obtained from the EPA document entitled "Economic Assessment of the Safe Management of Recalled Airbags Interim Final Rule" dated October 2018.
♦ PERSONS OTHER THAN SMALL BUSINESSES, BUSINESSES, OR LOCAL GOVERNMENTAL ENTITIES: It is anticipated that if there are any persons other than small businesses, businesses, or local governments that are involved in removing airbag inflators these persons would see a cost savings with the adoption of these rule changes. However, the data is not available and would be too costly to acquire in order to be able to make a determination as to who these persons are and what the fiscal impact could be, if any.

COMPLIANCE COSTS FOR AFFECTED PERSONS: It is anticipated that there will be no additional compliance costs for affected persons due to the adoption of these rule changes because these changes exempt persons removing airbag inflators from having to comply with several provisions that already exist in rule thus reducing the cost of compliance.

COMMENTS BY THE DEPARTMENT HEAD ON THE FISCAL IMPACT THE RULE MAY HAVE ON BUSINESSES: It is not anticipated that these rule changes will have a negative fiscal impact on any business involved in the removal of airbag inflators. Most car dealerships are currently very small quantity generators of hazardous waste. With the removal of the DOT Preservation Order protections, a dealership would be required to manage the removed airbag inflators as hazardous waste which could result in dealerships becoming small quantity generators of hazardous waste. These dealerships would in turn incur the costs associated with being small quantity generators (e.g. packaging and labeling, recordkeeping, personnel training, storage, and shipping). It is believed that these rule changes will assist in accelerating the removal of these dangerous airbag inflators. This is accomplished by exempting those businesses involved in the removal of airbag inflators from several of the regulatory requirements which results in a cost savings to those businesses.

THE FULL TEXT OF THIS RULE MAY BE INSPECTED, DURING REGULAR BUSINESS HOURS, AT:

ENVIRONMENTAL QUALITY
WASTE MANAGEMENT AND RADIATION CONTROL, WASTE MANAGEMENT
SECOND FLOOR
195 N 1950 W
SALT LAKE CITY, UT 84116-3097
or at the Office of Administrative Rules.

DIRECT QUESTIONS REGARDING THIS RULE TO:

♦ Rusty Lundberg by phone at 801-536-4257, by FAX at 801-536-0222, or by Internet E-mail at rlundberg@utah.gov
♦ Thomas Ball by phone at 801-536-0251, or by Internet E-mail at tball@utah.gov

INTERESTED PERSONS MAY PRESENT THEIR VIEWS ON THIS RULE BY SUBMITTING WRITTEN COMMENTS NO LATER THAN AT 5:00 PM ON 04/01/2019

THIS RULE MAY BECOME EFFECTIVE ON: 04/15/2019

AUTHORIZED BY: Alan Matheson, Executive Director

Appendix 1: Regulatory Impact Summary Table*

Fiscal Costs	FY 2019	FY 2020	FY 2021
State Government	$0	$0	$0
Local Government	$0	$0	$0
Small Businesses	$0	$0	$0
Non-Small Businesses	$0	$0	$0
Other Person	$0	$0	$0
Total Fiscal Costs:	**$0**	**$0**	**$0**
Fiscal Benefits			
State Government	$0	$0	$0
Local Government	$0	$0	$0
Small Businesses	$31,395	$31,395	$31,395
Non-Small Businesses	$7,605	$7,605	$7,605
Other Persons	$0	$0	$0
Total Fiscal Benefits:	**$39,000**	**$39,000**	**$39,000**
Net Fiscal Benefits:	**$39,000**	**$39,000**	**$39,000**

***This table only includes fiscal impacts that could be measured. If there are inestimable fiscal impacts, they will not be included in this table. Inestimable impacts for State Government, Local Government, Small Businesses and Other Persons are described in the narrative. Inestimable impacts for Non-Small Businesses are described in Appendix 2.**

Appendix 2: Regulatory Impact to Non-Small Businesses

There are 75 car dealerships (NAICS 4411) in Utah that are non-small businesses. These dealerships make up 19.5% of the dealerships in Utah. Most car dealerships are currently very small quantity generators of hazardous waste. With the removal of the DOT Preservation Order protections, a dealership would be required to manage the removed airbag inflators as hazardous waste which could result in dealerships becoming small quantity generators of hazardous waste. These dealerships would in turn incur the costs associated with being small quantity generators (e.g. packaging and labeling, recordkeeping, personnel training, storage, and shipping). Due to the exemptions provided by these rule changes, dealerships will not incur these costs and therefore, could see a cost savings of approximately $101.40 per year.

Data to assist in making this determination was obtained from the EPA document entitled "Economic Assessment of the Safe Management of Recalled Airbags Interim Final Rule" dated October 2018.

The head of the Department of Environmental Quality, Alan Matheson, has reviewed and approved this fiscal analysis.

R315. Environmental Quality, Waste Management and Radiation Control, Waste Management.
R315-262. Hazardous Waste Generator Requirements.
R315-262-14. General -- Conditions For Exemption for a Very Small Quantity Generator.

(a) Provided that the very small quantity generator meets all the conditions for exemption listed in Section R315-262-14, hazardous waste generated by the very small quantity generator is not subject to the requirements of Rules R315-124, 262 (except Sections R315-262-

10 through R315-262-14) through R315-268, and R315-270, and the notification requirements of section 3010 of RCRA and the very small quantity generator may accumulate hazardous waste on site without complying with such requirements. The conditions for exemption are as follows:

(1) In a calendar month the very small quantity generator generates less than or equal to the amounts specified in the definition of "very small quantity generator" in Section R315-260-10;

(2) The very small quantity generator complies with Subsections R315-262-11(a) through (d);

(3) If the very small quantity generator accumulates at any time greater than 1 kilogram (2.2 lbs) of acute hazardous waste or 100 kilograms (220 lbs) of any residue or contaminated soil, water, or other debris resulting from the cleanup of a spill, into or on any land or water, of any acute hazardous waste listed in Section R315-261-31 or Subsection R315-261-33(e), all quantities of that acute hazardous waste are subject to the following additional conditions for exemption:

(i) Such waste is held on site for no more than 90 days beginning on the date when the accumulated wastes exceed the amounts provided in Subsection R315-262-14(a)(3); and

(ii) The conditions for exemption in Subsections R315-262-17(a) through (g).

(4) If the very small quantity generator accumulates at any time 1,000 kilograms (2,200 lbs) or greater of non-acute hazardous waste, all quantities of that hazardous waste are subject to the following additional conditions for exemption:

(i) Such waste is held on site for no more than 180 days, or 270 days, if applicable, beginning on the date when the accumulated waste exceed the amounts provided in Subsection R315-262-14(a)(4);

(ii) The quantity of waste accumulated on site never exceeds 6,000 kilograms (13,200 lbs); and

(iii) The conditions for exemption in Subsections R315-262-16(b)(2) through (f).

(5) A very small quantity generator that accumulates hazardous waste in amounts less than or equal to the limits in Subsections R315-262-14(a)(3) and (4) shall either treat or dispose of its hazardous waste in an on-site facility or ensure delivery to an off-site treatment, storage, or disposal facility, either of which, if located in the U.S., is:

(i) Permitted under Rule R315-270;

(ii) In interim status under Rules R315-265 and 270;

(iii) Authorized to manage hazardous waste by a state with a hazardous waste management program approved under 40 CFR 271;

(iv) Permitted, licensed, or registered by a state to manage municipal solid waste and, if managed in a municipal solid waste landfill is subject to Rules R315-301 through R315-320;

(v) Permitted, licensed, or registered by a state to manage non-municipal non-hazardous waste and, if managed in a non-municipal non-hazardous waste disposal unit, is subject to the requirements in Rules R315-301 through R315-320 or 40 CFR 257.5 through 257.30;

(vi) A facility which:

(A) Beneficially uses or reuses, or legitimately recycles or reclaims its waste; or

(B) Treats its waste prior to beneficial use or reuse, or legitimate recycling or reclamation;

(vii) For universal waste managed under Rule R315-273, a universal waste handler or destination facility subject to the requirements of Rule R315-273;

(viii) A large quantity generator under the control of the same person as the very small quantity generator, provided the following conditions are met:

(A) The very small quantity generator and the large quantity generator are under the control of the same person as defined in Section R315-260-10. "Control," for the purposes of Subsection R315-262-14(a)(5)(viii), means the power to direct the policies of the generator, whether by the ownership of stock, voting rights, or otherwise, except that contractors who operate generator facilities on behalf of a different person as defined in Section R315-260-10 shall not be deemed to "control" such generators.

(B) The very small quantity generator marks its container(s) of hazardous waste with:

(1) The words ``Hazardous Waste" and

(2) An indication of the hazards of the contents, examples include, but are not limited to:

(I) the applicable hazardous waste characteristic(s), i.e., ignitable, corrosive, reactive, toxic;

(II) hazard communication consistent with the Department of Transportation requirements at 49 CFR part 172 subpart E, labeling, or subpart F, placarding;

(III) a hazard statement or pictogram consistent with the Occupational Safety and Health Administration Hazard Communication Standard at 29 CFR 1910.1200; or

(IV) a chemical hazard label consistent with the National Fire Protection Association code 704.

(ix) Reserved

(x) Reserved

(xi) For airbag waste, an airbag waste collection facility or a designated facility subject to the requirements of Subsection R315-261-4(j).

(b) The placement of bulk or non-containerized liquid hazardous waste or hazardous waste containing free liquids (whether or not sorbents have been added) in any landfill is prohibited.

(c) A very small quantity generator experiencing an episodic event may generate and accumulate hazardous waste in accordance with Sections R315-262-230 through 233 in lieu of Sections R315-262-15, 16, and 17.

KEY: hazardous waste, generators
Date of Enactment or Last Substantive Amendment: [~~August 31, 2017~~]2019
Authorizing, and Implemented or Interpreted Law: 19-6-105; 19-6-106

~~Human Services, Child and Family Services~~
R512-43
Adoption Assistance

NOTICE OF PROPOSED RULE
(Amendment)
DAR FILE NO.: 43518
FILED: 02/12/2019

WASTE MANAGEMENT AND RADIATION CONTROL BOARD
Executive Summary
Clean Harbors Aragonite, LLC – Stipulation and Consent Order
April 11, 2019

What is the issue before the Board?	This is a Stipulation and Consent Order (SCO) No. 1410021 to resolve Notice of Violation No. 1401002 issued to Clean Harbors Aragonite, LLC (CHA) on April 17, 2014, and violations discovered during inspections of the facility and/or violations reported by CHA during fiscal years 2014 through 2018 (FY2014 through FY2018).
What is the historical background or context for this issue?	The Division conducted a hazardous waste inspection at CHA from September 3 through September 12, 2013 (the FY2013 inspection). Based on findings documented during the FY2013 inspection and self-reported non-compliance, the Director issued Notice of Violation No. 1401002 (the NOV) on April 17, 2014. Prior to resolving the NOV, additional inspections were conducted at CHA in FY2014, FY2015, FY2016, FY2017, and FY2018. CHA also notified of other issues of non-compliance during that time period. These violations were similar to those noted on the FY2013 NOV. This SCO combines the violations from the FY2013 NOV and the violations from the FY2014 through FY2018 inspections and self-notifications. The SCO includes a penalty of $330,000.00 for all of the violations during the time period of FY2013 through FY2018.
What is the governing statutory or regulatory citation?	19-6-104(1)(f) of the Utah Solid and Hazardous Waste Act requires the Board to review settlements negotiated by the Director in accordance with Subsection 19-6-107(3)(a) that require a civil penalty of $25,000 or more.
Is Board action required?	No, this is an informational item before the Board. The public comment period for this SCO began on March 19, 2019 and will end on April 18, 2019.
What is the Division Director's recommendation?	The Director will provide a recommendation at the next Board meeting.
Where can more information be obtained?	For technical questions, please contact Deborah Ng at (801) 536-0218. For legal questions, please contact Raymond Wixom at (801) 536-0213.

DSHW-2019-001922
Attachment: Stipulation and Consent Order (DSHW-2019-001834)
Attachment: Notice of Violation (DSHW-2014-00221)

---oo0oo---

In the Matter of:	:	**STIPULATION AND CONSENT ORDER**
Clean Harbors Aragonite, LLC Notice of Violation No. 1401002 UTD 981 552 177	:	**No. 1410021**

---oo0oo---

This **STIPULATION AND CONSENT ORDER** is issued by the Director of the Division of Waste Management and Radiation Control (Director) pursuant to the Solid and Hazardous Waste Act (the Act), Utah Code Ann. §19-6-101, *et seq*. The Director has authority to issue such ORDERS in accordance with Utah Code Ann. §19-6-112.

JURISDICTION

1. The Director has jurisdiction over the subject matter of this **CONSENT ORDER** pursuant to Utah Code Ann. §19-6-112 and jurisdiction over the Aragonite facility, owned and operated by Clean Harbors Aragonite, LLC (CHA). CHA and the Director are the parties to this agreement.

2. The Waste Management and Radiation Control Board has authority to review this **CONSENT ORDER** pursuant to Utah Code Ann. §19-6-104(3)(f) and jurisdiction over CHA.

FINDINGS

3. CHA is a Delaware Limited Liability Company licensed to do business in the State of Utah and is a subsidiary of Clean Harbors, Inc., a Massachusetts corporation licensed to do business in the State of Utah. CHA is the owner and operator of the Aragonite facility.

4. CHA is a "person" as defined in Utah Code Ann. § 19-1-103(4) and is subject to all applicable provisions of the Utah Administrative Code, the Act, and the Permit.

5. The Aragonite facility is a commercial hazardous waste incinerator, transfer, and storage facility located in Tooele County, Utah, and is operated under the provisions of the State-issued Hazardous Waste Part B Permit issued on March 30, 1990, as modified (the Permit). The Permit was renewed and reissued, effective May 8, 2000, and again on September 28, 2012.

6. Authorized representatives of the Director conducted a hazardous waste inspection at the Aragonite facility from September 3 through September 12, 2013 (the FY2013 inspection). In addition, the facility self-reported several non-compliance issues during the 2013 fiscal year (October 1, 2012 through September 30, 2013) (FY2013). Based on findings documented during the FY2013 inspection and the self-reported non-compliance, the Director issued NOTICE OF VIOLATION No. 1401002 (the NOV) on April 17, 2014, alleging violations by CHA of its

Permit and the Utah Administrative Code.

7. CHA filed responses to the NOV on May 12, 2014 (DSHW-2014-007092 and DSHW-2014-007109), June 13, 2014 (DSHW-2014-008689), and July 9, 2014 (DSHW-2014-009635).

ADDITIONAL VIOLATIONS

8. In addition to the violations identified in the NOV, additional violations were documented during a hazardous waste inspection conducted at the Aragonite facility from September 2 through September 16, 2014 (the FY2014 inspection) or were reported by CHA during the 2014 fiscal year (October 1, 2013, through September 30, 2014) (FY2014).

9. In addition to the violations identified in the NOV, additional violations were documented during a hazardous waste inspection conducted at the Aragonite facility from August 31 through September 10, 2015 (the FY2015 inspection) or were reported by CHA during the 2015 fiscal year (October 1, 2014, through September 30, 2015) (FY2015).

10. In addition to the violations identified in the NOV, additional violations were documented during a hazardous waste inspection conducted at the Aragonite facility from August 29 through September 8, 2016 (the FY2016 inspection) or were reported by CHA during the 2016 fiscal year (October 1, 2015, through September 30, 2016) (FY2016).

11. In addition to the violations identified in the NOV, additional violations were documented during a hazardous waste inspection conducted at the Aragonite facility from September 11 through September 28, 2017 (the FY2017 inspection) or were reported by CHA during the 2017 fiscal year (October 1, 2016 through September 30, 2017) (FY2017).

12. In addition to the violations identified in the NOV, additional violations were documented during a hazardous waste inspection conducted at the Aragonite facility from September 10 through September 27, 2018 (the FY2018 inspection) or were reported by CHA during the 2018 fiscal year (October 1, 2017 through September 30, 2017) (FY2018).

13. The violations identified from the FY2014, FY2015, FY2016, FY2017, and FY2018 inspections and the violations reported by CHA during those time periods, occurred in the categories identified in Attachment 1.

STIPULATION AND CONSENT ORDER

14. The parties now wish to fully resolve the NOV and ADDITIONAL VIOLATIONS without further administrative or judicial proceedings.

15. In full settlement of the violations alleged in the NOV and this **CONSENT ORDER**, CHA shall pay a penalty of $330,000.00. Payment shall be made within thirty days of entry into this **CONSENT ORDER**. Payment shall be made to the State of Utah, Department of Environmental Quality, Ty Howard, Director, Division of Waste Management and Radiation Control, P.O. Box 144880, Salt Lake City, Utah 84114-4880. This amount has been determined in accordance with the Board's Civil Penalty Policy (Utah Administrative Code R315-102) which considers such factors as the gravity of the violations, the extent of deviation from the rules, the potential for harm to human health and the environment, good

faith efforts to comply and other factors.

16. The person signing this **CONSENT ORDER** on behalf of CHA hereby represents to the Director that he or she has the full legal authorization to do so and agrees that the Director may rely on this representation.

EFFECT OF CONSENT ORDER

17. For the purpose of this **CONSENT ORDER**, the parties agree and stipulate to the above stated facts. The stipulations contained herein are for the purposes of settlement and shall not be considered admissions by any party and shall not be used by any person related or unrelated to this **CONSENT ORDER** for purposes other than determining the basis of this **CONSENT ORDER**. Nothing contained herein shall be deemed to constitute a waiver by the State of its right to initiate enforcement action, including civil penalties, against CHA in the event of future non-compliance with this **CONSENT ORDER**, with the Act, with the Utah Administrative Code, or with the Permit; nor shall the State be precluded in any way from taking appropriate action should such a situation arise again at the Aragonite facility. However, entry into this **CONSENT ORDER** shall relieve CHA of all liability for violations which did arise or could have arisen with respect to the allegations contained in the NOV and the ADDITIONAL VIOLATIONS in this **CONSENT ORDER**.

EFFECTIVE DATE

18. This **CONSENT ORDER** shall become effective upon execution by CHA and the Director.

Dated this_____day of_____2019

Clean Harbors Aragonite, LLC

_____
Michael Crisenbery
Vice President, Compliance

Division of Waste Management and Radiation Control

_____
Ty L. Howard, Director

Attachment 1

Violation Categories Identified from the FY2014, FY2015, FY2016, FY2017, and FY2018 Inspections, and the Violations Reported by CHA During those Time Periods

a. Failure to follow proper spill cleanup and/or reporting procedures
b. Failure to follow proper waste analysis procedures
c. Failure to properly resolve, document, and report manifest discrepancies
d. Failure to follow appropriate manifesting requirements
e. Failure to prepare and submit *Exception Reports*
f. Failure to follow proper inspection requirements and/or properly document inspections
g. Failure to conduct all required personnel training and/or properly document training
h. Failure to maintain emergency equipment as required
i. Failure to follow proper waste rejection procedures
j. Failure to comply with the air emission standards for equipment leaks
k. Storage of flammables and/or cyanides and/or oxidizers in areas not designed or permitted for those materials
l. Failure to properly track wastes
m. Failure to properly manage infectious wastes
n. Failure to comply with the fume management procedures
o. Failure to calibrate instruments and/or properly document calibrations
p. Failure to follow the generator requirements for hazardous waste accumulated on-site
q. Failure to properly manage transfer wastes
r. Placing incompatible wastes or materials in the same container
s. Improper stacking of containers
t. Failure to timely off-load incoming loads of hazardous waste
u. Failure to maintain adequate aisle space
v. Exceeding the allowable capacity of tanks T-406 and T-311
w. Failure to properly manage universal wastes
x. Incinerating wastes prohibited by the *Land Disposal Restrictions*
y. Burning off-specification used oil fuel without a permit
z. Failure to provide required information within a reasonable time
aa. Improper categorization of wastes
bb. Improper profiling of wastes for acceptance at the facility
cc. Failure to conduct compatibility testing prior to commingling wastes
dd. Storing wastes subject to the *Land Disposal Restrictions* for longer than one year
ee. Failure to submit reports on time
ff. Failure to maintain the bulk solids pad in good repair
gg. Failure to maintain fire doors in compliance with NFPA
hh. Failure to prepare and submit *Unmanifested Waste Reports*
ii. Storing containers of incompatible wastes next to each other
jj. Failure to minimize opening the emergency vent
kk. Failure to maintain calibration gas certificates on site

State of Utah

GARY R. HERBERT
Governor

SPENCER J. COX
Lieutenant Governor

Department of
Environmental Quality

Amanda Smith
Executive Director

DIVISION OF SOLID AND
HAZARDOUS WASTE
Scott T. Anderson
Director

April 17, 2014

CERTIFIED MAIL
RETURN RECEIPT REQUESTED
7005 0390 000 7508 5869

Michael Marlowe
General Manager
Clean Harbors Aragonite, LLC
P.O. Box 1339
Grantsville, UT, 84029

RE: Compliance Evaluation Inspection
Notice of Violation
UTD981552177

Dear Mr. Marlowe:

Enclosed is NOTICE OF VIOLATION (NOV) Number 1401002, based on findings documented by Division of Solid and Hazardous Waste inspectors during compliance inspections on September 3-12, 2013.

You are hereby requested to submit to this office on or before May 16, 2014, written verification that the violations documented in the NOV have been corrected. Please include a description of the corrective actions implemented to ensure that these violations do not recur. Your response to this request will not constitute an administrative contest to the attached NOV.

You have 30 days from the date of the enclosed NOV to contest it in the manner and within the time period prescribed by R305-7-303 of the Utah Administrative Code.

If you have any questions, please call Rick Page at (801) 536-0230.

Sincerely,

Scott T. Anderson, Director
Division of Solid and Hazardous Waste

STA/RAP/rp

Enclosure:

(Over)

c: Myron Bateman, EHS, MPA, Health Officer, Tooele County Health Department
Jeff Coombs, EHS, Environmental Health Director, Tooele County Health Department
David Duster, U.S. EPA, Region VIII, ENF-R

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In the Matter of:	:	**NOTICE OF VIOLATION**
	:	
Clean Harbors Aragonite, LLC	:	**No. 1401002**
UTD 981 552 177	:	

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This **NOTICE OF VIOLATION (NOV)** is issued by the Director of the Division of Solid and Hazardous Waste pursuant to the Utah Solid and Hazardous Waste Act (the Act), Utah Code Ann. § 19-6-101, *et seq.* The Director has authority to issue such NOTICES in accordance with Utah Code Ann. § 19-6-112.

FINDINGS

1. Clean Harbors Aragonite, LLC (CHA) is a Delaware Limited Liability Company licensed to do business in the State of Utah and is a subsidiary of Clean Harbors Environmental Services, Inc., a Massachusetts corporation licensed to do business in the State of Utah.

2. CHA is a "person" as defined in Utah Code Ann. § 19-1-103(4) and is subject to all applicable provisions of the Act, the Utah Administrative Code (Rules) and the Permit issued to CHA as owner and operator of the Aragonite facility.

3. The Aragonite facility is a commercial hazardous waste incinerator, transfer station and storage facility in Tooele County, Utah. CHA operates the Aragonite facility under the provisions of the State-issued Hazardous Waste Part B Permit issued on March 30, 1990, as modified (the Permit) on file with the Utah Department of Environmental Quality, Division of Solid and Hazardous Waste (the Division). The Permit was renewed and reissued, effective May 8, 2000 and again on September 28, 2012.

4. CHA generates, treats, and stores listed and characteristic hazardous waste as defined by R315-2 of the Rules.

5. Authorized representatives of the Director conducted compliance evaluation inspections at CHA from September 3 through September 12, 2013 (the FY2013 inspection) and documented the following findings. In addition, the facility self-reported several non-compliance issues during the 2013 fiscal year (October 1, 2012 through September 30, 2013) (FY2013).

6. Condition 1.P.1. of the Permit specifies that samples and measurements taken for the purpose of monitoring to demonstrate compliance with the permit shall be accurate and representative of the monitored activity. Condition 5.A.6 of the Permit requires CHA to comply with the provisions of Attachment 14, the Fume Management Plan. Section 2.5 of the Fume Management Plan specifies that the actual number of hours that each carbon adsorber is in use be recorded. During the FY2013 inspection, the inspector(s) documented the following:

   a. Inspectors investigated the timers on the backup carbon adsorption system. It was noted that one hour of operation was counted as less than one hour on the carbon adsorber timers. This underreported the time the carbon adsorbers were actually used. CHA investigated the issue

and determined that the error was caused by some rounding errors in the program that made the calculation. On September 23, 2013 (in a letter dated September 19, 2013), CHA notified the Division that on September 12, 2013, CHA had discovered that the carbon bed timers were improperly recording time.

7. Condition 1.Q.9. of the Permit requires that each time the emergency vent is opened during operation, CHA shall notify the Director in writing within seven days. Condition 1.Q.11. of the Permit requires that each time the baghouse is bypassed during operation, CHA shall notify the Director in writing within seven days. During the FY2013 inspection, the inspector(s) documented the following:

   a. Ten emergency vent openings had been reported to the Director in FY2013. Three of those ten reports were submitted later than the required seven days (eleven, ten, and nine days).

   b. There was an emergency vent opening that occurred on February 4, 2013. It was not reported to the Director.

   c. There was a baghouse bypass that occurred on February 4, 2013. It was not reported to the Director.

8. Condition 2.C.2. of the Permit prohibits CHA from accepting and managing water reactive wastes or materials except in quantities of less than four liters in lab packs. Section 3.0 of Attachment 1 of the Permit, the Waste Analysis Plan (WAP), specifies that material shipped with a DOT hazard class of "4.3" will be considered water reactive. It also specifies that wastes that contain any known water reactive constituents in the profile constituents will be considered water reactive. During the FY2013 inspection, the inspector(s) documented the following:

   a. On July 17, 2013 (in a letter dated July 15, 2013), CHA notified the Division that on July 9, 2013, CHA had discovered that it had accepted and incinerated a lab pack with inner containers of DOT 4.3 materials (water reactive) in excess of four liters.

   b. Container 29783819 was shipped to Aragonite as "UN1402, Waste Calcium Carbide, 4.3, PGII." Calcium carbide is water reactive (it reacts violently with water to produce acetylene). The waste characterization code on the *Waste Receiving Report* was for a waste that inhibits analysis (not a lab pack). The container did not meet the definition of a lab pack. The container was accepted and incinerated on February 18, 2013.

9. Condition 2.D. of the Permit requires CHA to comply with the waste analysis procedures specified in Attachment 1 of the Permit. The WAP outlines the different types of wastes and waste matrices that may be encountered and specifies the waste characterization procedures to be followed for each waste type. Section 3.0 of Attachment 1 requires Aragonite to clearly document the code for the waste characterization procedure from the WAP that applies to each waste stream accepted at the facility. Aragonite documents the code for the waste characterization procedure for each waste on the *Waste Receiving Report* form. During the FY2013 inspection, the inspector(s) documented the following:

   a. Drum 29216103 was shipped to Aragonite on manifest 004894837FLE. The DOT description was "UN2810, Waste Toxic Liquids, Organic, N.O.S. (Mytomycin C), 6.1, PG III." The profile indicated that it contained 0-50% sharps, 0-50% PPE, and 5-20% Mytomycin. The comments in waste tracking indicated that it contained feces. There was no waste

characterization code or physical description on the *Waste Receiving Report.*

10. Condition 2.D. of the Permit requires CHA to comply with the waste analysis procedures specified in Attachment 1 of the Permit. The WAP outlines the different types of wastes and waste matrices that may be encountered and specifies the waste characterization procedures to be followed for each waste type. Section 3.3 of Attachment 1 describes the "waste that inhibits analysis" waste matrix and specifies the waste characterization procedures to be used for this matrix. Section 3.3.2 of Attachment 1 requires that, prior to accepting the waste, the contents of each container be inspected for physical appearance and that the person inspecting the material provide a detailed written description, photo, or transmit video to waste acceptance personnel, so that they can easily determine if the waste matches the profile. Section 3.3.3 of Attachment 1 requires that the person inspecting the waste also estimate the percentages of each type of material in the waste (e. g., % glass, % plastic, % wood, etc.). It also requires that a matrix be used that lists the various materials and the corresponding incineration parameters for each of these materials, along with the percentages of each type of material, to develop an overall estimate of the incineration parameters for the waste. It also requires that additional information specific to the waste stream obtained from the profile be factored into the calculation. It also requires that the method used for determining each of the incineration parameters be clearly documented in the operating record. During the FY2013 inspection, the inspector(s) documented the following:

    a. Line 1 of manifest 001172688FLE (lot #9936551) listed three containers with a DOT description of "RQ, UN1950, Waste Aerosols, each not exceeding 1L capacity, 2.1, none, D001." The profile was CH121049 and the processing code was LCCRQ. Aragonite assigned the waste characterization code for "waste that inhibits analysis." The chemistry for these drums was calculated from the debris matrix. One hundred percent metal debris was used in the calculation even though the profile showed butane, propane, spray paint, hair spray, and vermiculite from 10-50% each.

    b. Line 1 of manifest 004816359FLE (lot #9936962) listed two containers with a DOT description of "RQ, UN1950, Waste Aerosols, each not exceeding 1L capacity, 2.1, none, D001." The profile was CH121049 and the processing code was LCCRQ. Aragonite assigned the waste characterization code for "waste that inhibits analysis". The chemistry was assigned using the *Lab-Pack Burn Chemistry* spreadsheet. Aragonite could not provide documentation for how this spreadsheet calculated the incineration parameters.

11. Condition 2.D. of the Permit requires CHA to comply with the waste analysis procedures in Attachment 1. Section 4.8 of the WAP specifies that wastes on a single load that have the same profile number and DOT description and appear to be of the same waste type will be grouped together for sampling and determination of incineration parameters. During the FY2013 inspection, the inspector(s) documented the following:

    a. Inspectors observed four drums (32791325-32791328) from line 1 of manifest 006862773FLE being repacked. The comments in waste tracking indicated that they contained "100% black sludge." Drums 32791325, 32791326, and 32791328 contained a thick black sludge that was repacked into several drums with floor dry. However, drum 32791327 had plastic bags with debris-like material in them over a dark, dirt-like material. The physical difference of the waste in this drum was obvious. It was not split into a new lot for separate chemistry. All four drums were part of lot #10865064 and given the same chemistry.

12. Condition 2.F. of the Permit requires that CHA comply with the inspection procedures in Attachment 3. Attachment 3, Inspections, specifies that any deficiencies found be noted on the inspection logs and a work order be generated and referenced or a notation be made indicating what corrective action was completed. Attachment 3 also requires daily inspections for the correct temperature of the laboratory refrigerators and freezers, daily inspections of the container storage buildings, drum pumping station, Buildings 68 and 69, weekly inspections to verify that the plant alarms and paging system are audible at Buildings 68 and 69 and weekly inspections of the lab showers and eyewashes. It also specifies that all inspections will be documented and maintained as part of the operating record. During the FY2013 inspection, the inspector(s) documented the following:

    a. CHA does not routinely conduct the inspections for the correct temperature of the laboratory refrigerators and freezers on weekends and holidays. A temperature inspection for some of the units was missing for Tuesday, December 4, 2012.

    b. CHA records the weekly inspections of the showers and eyewashes on a tag attached to the shower/eyewash. A portable eyewash system was located in the wet chemistry room and had been in use for over a year. The most recent inspection on the tag was August 16, 2013. The prior inspections in order of most recent to oldest as listed on the tag were: August 8, 2013, July 12, 2013, July 3, 2013, June 16, 2013, June 13, 2013, May 28, 2013, May 9, 2013, April 18, 2013, and March 8, 2013.

    c. An *Incident Report* dated August 21, 2013 stated that the daily inspections of the E-buildings (container storage buildings), drum pump station, and reactive buildings (68 and 69) were not documented.

    d. The weekly plant alarm system inspection log did not include Buildings 68 and 69.

    e. The Security and Safety inspections for May 27, 2013, June 25, 2013, and July 22, 2013, failed the weekly inspection for poor condition/damage to the perimeter fence. There was no work ticket associated with these failures.

    f. The inspection for Building E-2 failed because of a leaking roof on January 29-31, 2013. The inspection passed on February 1, 2013, but the work on the roof was not completed until early May 2013.

    g. The tank farm secondary containment was inspected. Below tanks T-305/T-306 in the floor of the containment area, there was a crack approximately three feet long beyond what was a previous area of repair. The most recent monthly inspection of the tank farm secondary containment had been conducted on September 1, 2013. No failures were noted in the inspection log.

13. Condition 2.G. of the Permit requires CHA to comply with the personnel training requirements in Attachment 4. Section 2.0 of Attachment 4 specifies that the required training occurs within six months of the date of hire. Table 2 in Attachment 4 specifies that Material Handlers complete the following training courses: 1102.1 (Industrial Safety) (renumbered to SS2027), 1202.2 (Compressed Gases) (renumbered to SS4016), and 1202.3 (Venting Lines) (renumbered to SS3242). During the FY2013 inspection, the inspector(s) documented the following:

    a. Elyse Elmer was hired on October 15, 2012. The org chart indicates her position is Lab

Chemist I, though her training summary file indicates her position is Laboratory Technician I. Training courses SS2000 (Permit Training), SS2016 (Site Orientation), SS2027 (Industrial Safety) and SS2025 (Contingency Plan), were all completed after the end of the six month period following her date of hire.

b. Steven Peterson was hired on October 15, 2012. The org chart and training summary list his position as Receiving Chemist I (corresponds to Material Handler in the Permit). Training course HS6020 (Fire Safety) was not completed until after the end of the six month period following his date of hire. There is no record of him taking courses SS2027 (Industrial Safety), SS4016 (Compressed Gases), or SS3242 (Venting Lines).

c. Jason Chavez was hired on October 29, 2012. The org chart and training summary list his position as Incineration/Incinerator Operator I. His training record indicates that courses SS2027 (Industrial Safety Training), SS3242 (Venting Lines) and SS4016 (Compressed Gas Safety) were all completed after the end of the six month period following his date of hire.

d. Scott Cornwall was hired on December 4, 2012. The org chart and training summary list his position as Incinerator/Incineration Operator I. His training record indicates that courses SS3242 (Venting Lines) and SS4016 (Compressed Gas Safety) were completed after the end of the six month period following his date of hire.

e. Adam Gleason was hired on December 4, 2012. The org chart and training summary list his position as Facility Technician I. His training record indicates that courses HS6020 (Fire Safety), SS3242 (Venting Lines) and HS6700 (Confined Space) were completed after the end of the six month period following his date of hire.

f. Joshua Smith was hired on January 14, 2013. The org chart lists his position as Facility Technician II while the training summary indicates his position is Facility Technician I. Training requirements are the same for either position. His training record indicates that courses HS6700 (Confined Space), SS3242 (Venting Lines) and SS2000 (Permit Training) were completed after the end of the six month period following his hire date.

g. Robert Wells was hired on January 14, 2013. The org chart and training summary list his position as Incineration Operator I. His training record indicates that course SS3242 (Venting Lines) was completed after the end of the six month period following his hire date.

h. Alan Miller was hired in April of 2012. The facility org chart and training summary list his position as Facility Technician II. Courses SS3242 (Venting Lines) and HS6700 (Confined Space) were taken nearly 14 months after his date of hire.

14. Condition 2.J of the Permit requires CHA to comply with the procedures in Attachment 6, Contingency Plan. Section 11.0 of Attachment 6 requires CHA to submit a written report to the Director within 15 days after an incident that required implementation of the Contingency Plan. Section 5.0 of Attachment 6 specifies that the Contingency Plan will be implemented whenever there is an emergency. An emergency is defined in Section 4.0 of Attachment 6 and includes fires in areas where waste management occurs (e. g., areas south of Main Street, truck staging areas, the lab, etc.). During the FY2013 inspection, the inspector(s) documented the following:

a. Eight fires had been reported to the Director in FY2013. Three of those eight reports were submitted later than the required fifteen days (sixteen, eighteen, and seventeen days).

b. There was a fire on February 11, 2013 where residue in the bottom of a drum from the drum dump operation caught fire at the top of the elevator. It was not reported to the Director.

c. There was a fire on March 7, 2013 caused by heat tracing grounding out under the insulation in the spray dryer ring header. It was not reported to the Director.

15. Condition 2.K. of the Permit requires CHA to comply with R315-8-5.2 and R315-8-5.4 of the Rules. R315-8-5.2(a)(2)(ii) specifies that CHA note any manifest discrepancies on each copy of the manifest. R315-8-5.4(c) specifies that CHA attempt to reconcile a manifest discrepancy with the generator or transporter. It also specifies that if the discrepancy is not resolved within 15 days after receiving the waste, CHA shall immediately submit to the Director a letter describing the discrepancy and attempts to reconcile it. During the FY2013 inspection, the inspector(s) documented the following:

a. Drum 29216103 was shipped to Aragonite on manifest 004894837FLE. The DOT description was "UN2810, Waste Toxic Liquids, Organic, N.O.S. (Mytomycin C), 6.1, PG III." The profile indicated that it contained 0-50% sharps, 0-50% PPE, and 5-20% Mytomycin. The comments in waste tracking indicated that it contained feces. The Special Instructions on the *Waste Receiving Report* indicated it was a medical waste. However, it was coded D20R (non-infectious). There was no indication of any discrepancy. A letter describing the discrepancy and attempts to reconcile it was not submitted to the Director.

b. The files at Aragonite contained a letter from CHA to the Director explaining an unresolved manifest discrepancy relating to drum 30767997. The letter indicated that the waste in the drum was profiled and shipped as a flammable liquid, but tested to be water reactive. Aragonite had made arrangements to reject the drum. The letter describing the discrepancy and its resolution was not submitted to the Director.

c. As of the date of the inspection, Aragonite had submitted 28 notices of "Unresolved Significant Discrepancies" to the Director. These notifications covered discrepancies for 55 different containers. Of those, all but three were submitted later than 15 days after the discrepancy was discovered. All of the reports were well past 15 days after the date the waste was received.

16. Condition 3.B.6. of the Permit requires CHA to comply with the provisions of Attachment 8, Waste Storage, Processing, and Tracking. Section 1.2 of Attachment 8 requires that the location of all rejected wastes be tracked in the computerized waste tracking system and that the waste tracking system clearly show that the material is to be rejected and when this determination was made. It also requires that the date the reject determination was made be preserved in the comments section in the waste tracking system. It also requires that wastes in reject status be identified on the *Drum Reject Report* in the waste tracking system. It also specifies that rejected containers, except compressed gas cylinders, be temporarily placed in the "K" or "M" rows of Building E-1 or in any of the bays to await shipment off-site. It also requires that when a rejected waste is shipped off site, the tracking activity code will be updated to "RTAF," "RTG," or "RTGI" and the actual date will be set to the date the container left the facility. It also requires that wastes that are initially rejected, but later accepted, be captured on the *Drum Reject Report* in the waste tracking system. It also requires that for wastes that are initially rejected and later accepted, the determination of acceptance will be made within 60 days of receipt of the waste. During the FY2013 inspection, the inspector(s) documented the following:

a. There were 145 items identified on a *Drum Reject Report* covering the period from January 1, 2013, to August 22, 2013. Thirty-five of the 145 items on the report did not have the rejection date documented in the comments of waste tracking.

b. The waste tracking system showed that a determination to reject drum 30882665 was made on July 28, 2013. However, CHA signed the manifest rejecting this waste on July 24, 2013.

c. CHA decided to reject drum 31391691 to an alternate facility (Clean Harbors El Dorado). The activity code was set to RTAF (indicating that it had been shipped) on June 26, 2013. However, the reject manifest shows that it was picked up June 28, 2013.

d. Drum 30480144 was final coded RTG on May 21, 2013 (indicating that was the day that the rejection determination was made). The *Waste Receiving Report* also indicated that it was rejected on May 21, 2013. However, the comments in waste tracking indicated that CHA decided to reject the waste on June 28, 2013 (the date that it was shipped off-site).

e. Container 29803760 was repacked into 20 repacks (30264561-30264580). CHA then decided to reject the original container. The repacks were consolidated back into one container (30430466) on April 15, 2013, so that it could be rejected to an alternate facility. The comments in waste tracking indicate that the rejection determination was made on April 25, 2013. However, that determination was obviously made earlier, since the repacks were consolidated on April 15, 2013, for the purpose of rejecting them.

f. Drum 28906771 was a rejected container and was awaiting shipment off site. It was placed in E3-G15-L1 and was stored there from May 2, 2013 until May 29, 2013. This location is not in the "K" or "M" rows of Building E-1 or in any of the bays, where rejected wastes are allowed to be stored while awaiting shipment off-site.

g. Waste tracking showed six drums in reject status in E1-M on August 22, 2013. None of them were on the *Drum Reject Report.*

h. There were ten items noted as being in reject status on February 6, 2013. None of these items were on the *Drum Reject Report.* Waste tracking showed that they were later accepted. The *Drum Reject Report* has no way of capturing items that were rejected and later accepted.

i. Nine of the ten items noted as being in reject status on February 6, 2013, did not have the rejection date in the comments in waste tracking.

j. Waste tracking showed that all ten of the items noted as being in reject status on February 6, 2013 were accepted later than 60 days after receipt.

17. Condition 3.B.6. of the Permit requires CHA to comply with the provisions specified in Attachment 8, Waste Storage, Processing, and Tracking. Section 2.3.1 of Attachment 8 specifies that if an incoming van cannot be unloaded immediately, it will be stored east of the container storage buildings until an unloading dock is available. Another location may be used to store the vans on a temporary basis only after receiving oral approval from the Division. During the FY2013 inspection, the inspector(s) documented the following:

a. There were five vans of incoming waste (SLT 70279, SLT 70293, SLT 70183, NX 8462 and 537008) located near the cooling tower (not east of the container storage buildings). Oral

approval to store incoming vans waiting to be offloaded near the cooling tower had not been requested or given.

18. Condition 3.B.6. of the Permit requires CHA to comply with the provisions specified in Attachment 8, Waste Storage, Processing, and Tracking. Section 5.2 of Attachment 8 specifies that prior to untracking wastes in the waste tracking system, the tracking history and any other information that will be deleted will be copied and filed in the operating record, along with a memo explaining and justifying why the change was made. During the FY2013 inspection, the inspector(s) documented the following:

    a. The tracking history for drums 29785015 and 31287832 was untracked. No record of the tracking history was made before untracking the wastes.

19. Condition 3.B.6. of the Permit requires that CHA comply with the provisions of Attachment 8, Waste Storage, Processing, and Tracking. Section 6 of Attachment 8 outlines the requirements for complying with the air emission standards for equipment leaks. It requires that CHA maintain a database of all required equipment, that drawings show the approximate location of each piece of equipment, and that all equipment be marked with a tag containing a unique equipment identification number. During the FY2013 inspection, the inspector(s) documented the following:

    a. Subpart BB equipment DC-AV001, DC-CP001, and DC-CP002 were listed in the database but were not on the drawing of the area or located in the field
    b. Subpart BB equipment DC-MV004 is still shown on the drawing, but does not exist in the field and the database indicates it was removed in August, 2013.

    c. Subpart BB equipment DC-F131 was in the database but was not included on the drawing or located in the field.

    d. Subpart BB equipment DC-F019 was not in the database, but was on the drawing and was confirmed to be in the field.

    e. Subpart BB equipment DC-F006 was not tagged.

20. Condition 3.D.13. of the Permit requires CHA to record the location of each container in the container storage areas and to maintain a history of the movement of each container from the time it is placed into the container management areas until it is either incinerated or manifested off site. It also requires CHA to comply with the waste tracking provisions of Attachment 8. Section 5 of Attachment 8 requires that containers of wastes be tracked in real time so that their location is known at any time. It also requires that CHA notify the Director of containers that have been lost, and for which CHA has exhausted all methods for resolving these discrepant containers and waste tracking has been updated to clear these containers from Aragonite's inventory. This notification is required to be submitted within 30 days of making the changes to waste tracking. During the FY2013 inspection, the inspector(s) documented the following:

    a. Drum 28906771 came to Aragonite on November 17, 2012. The drum was shipped to the Clean Harbors Kimball facility on March 1, 2013. Clean Harbors Kimball determined that the waste did not match the profile and rejected it back to Aragonite on April 4, 2013. The drum arrived back at Aragonite on April 26, 2013. Since it was an inter-company rejection, it was removed in waste tracking from the shipment sending it to Kimball. It therefore incorrectly shows in waste tracking that it never left Aragonite and was never shipped to Kimball, rejected

by Kimball, and shipped back to Aragonite.

b. After CHA received drum 28906771 back from Clean Harbors Kimball on April 26, 2013, it was shipped to the Clean Harbors Wilmington facility on May 31, 2013 (where it would be returned to the generator). However, it was mistakenly shipped back to Aragonite on July 8, 2013. CHA reshipped the drum on July 23, 2013. The return of the drum and the reshipment do not show on waste tracking.

c. Aragonite had submitted eleven notifications to the Director, reporting sixteen drums that it had lost, had exhausted all methods for resolving the discrepant containers, and had updated waste tracking to show the most likely disposition of these containers. Some of these notifications were given subsequent to the inspection, based on investigations made during the inspection. Of the eleven notifications, six were submitted later than 30 days after determining that the lost containers could not be resolved and updating waste tracking to remove them from the Aragonite inventory (32 to 43 days).

d. Drum 28793344 was repacked into four containers (29133428-29133431) on December 12, 2012. These four repacks were reported lost on December 12, 2012. On January 29, 2013, Aragonite manually incinerated these four repacks in waste tracking, backdating the waste tracking record to December 11, 2012. The justification was that five other drums (29133396, 29133415, 29133416, 29133455, and 29133456) were each scanned twice to E4-P approximately 20 seconds apart and that this indicates the possibility of a double barcode. However, it would not be unusual to scan a container twice to a location when placing it there. It also does not explain why a double barcode would cause the four repacks to be lost. The items scanned twice to E4-P were not scanned twice to BZCON and AGPT-CON, indicating it was likely not a double barcode issue.

21. Condition 3.C.4. of the Permit prohibits the storage of cyanide-bearing wastes and oxidizers in any of the container management areas except Buildings 68, 69-North, and 69-South, with certain exceptions. These exceptions do not include the storage areas of Building E-2 or Building E-6. Section 3.0 of the WAP specifies that material shipped as "cyanide" or that has the processing waste class code of B29O will be considered reactive cyanide unless analytical, manifest, and/or profile indicate otherwise. If the material is shown to not be reactive cyanide, this conclusion must be documented in the comments in waste tracking. Section 3.0 of the WAP specifies that if a waste tests positive for the oxidizer screen, it will be considered an oxidizer subject to the restrictions in Condition 3.C.4. It also specifies that if Aragonite believes that the positive oxidizer screen is showing a false positive, this conclusion will be documented in the comments in waste tracking. During the FY2013 inspection, the inspector(s) documented the following:

a. Drum 30719871 was shipped as "Hazardous Waste, Liquid, N.O.S. (Ammonia, Cyanides)." It was assigned the processing waste class code of B29O (organic cyanide/sulfide bearing solutions for incineration). The cyanide screen was negative and the spot test was not run. There was nothing in the comments in waste tracking indicating that Aragonite did not consider this to be a reactive cyanide waste. It was placed in E2-C01-L1 on May 29, 2013. It remained there until June 4, 2013.

b. Container 29035665 tested positive as an oxidizer. There was nothing in the comments section of waste tracking or in the document packet indicating that Aragonite believed that this was a false positive. Waste tracking shows that the drum was stored in Building E-6 from December 4, 2012, to January 10, 2013.

22. Condition 3.C.5. of the Permit prohibits the storage of compressed gas cylinders in any of the container management areas except the compressed gas cylinder storage area and the cylinder feed station. However, these cylinders may be off-loaded into Buildings E-1 or E-5, but may not remain in Buildings E-1 or E-5 for more than 24 hours from the time they are off-loaded before being transferred to the cylinder storage area. During the FY2013 inspection, the inspector(s) documented the following:

    a. Tracking number 32363074 was a five-gallon container of CO_2 cartridges located in the cylinder storage area. Waste tracking showed that it was off-loaded and placed in Building E-5 on August 3, 2013. It remained in Building E-5 until August 30, 2013 (27 days).

23. Condition 3.D.3. of the Permit prohibits the placement of incompatible waste or materials in the same container. Condition 2.D. of the Permit requires CHA to comply with the waste analysis procedures in Attachment 1. Section 3.1.3.2 of the WAP specifies that compatibility testing must be done prior to comingling any liquids or sludges. During the FY2013 inspection, the inspector(s) documented the following:

    a. Six drums were repacked into 27 charges on April 23, 2013. Floor dry was added to the material from the drums. After 15-20 minutes, there was a reaction in the drums (heat, smoke).

    b. A fire reported for March 29, 2013 was a result of a reaction of an oxidizer and floor dry (or other material) with which it was repacked. After repacking the drum, the temperature began to rise. It was placed on RCON to get it in the incinerator. Before it was fed, the temperature continued to rise and the drum flashed.

    c. On February 7, 2013, two incoming tankers became mixed up and the wrong one was pumped to tank T-302. No compatibility test had been done for the material in this tanker and tank T-302 prior to the transfer.

    d. On August 9, 2013 (in a letter dated August 9, 2013), CHA notified the Division that on August 2, 2013, CHA had discovered that it had mixed up two tankers of incoming waste and transferred the wrong one to tank T-324. The waste in the tanker transferred to T-324 was a cyanide bearing waste with a pH greater than 12.5. No compatibility test had been run for the material in this tanker and tank T-324 prior to the transfer.

24. Condition 3.D.9. of the Permit requires that CHA unload any transport vehicle carrying containers within ten days of being received at the facility. During the FY2013 inspection, the inspector(s) documented the following:

    a. On May 20, 2013 (in a letter dated May 17, 2013), CHA notified the Division that on May 13, 2013, CHA had discovered a cargo van carrying waste containers that had not been unloaded within ten days of receipt.

    b. Waste tracking showed that container 29783819 arrived at Aragonite on November 28, 2012, but did not show it being placed into inventory until February 15, 2013, indicating that the container was not unloaded from the transport vehicle for 79 days.

25. Condition 3.D.15. of the Permit requires that containers be stacked neatly, wrapped, or both, to provide stability and in a manner that will not cause them to fall or leak. During the FY2013 inspection, the inspector(s) documented the following:

    a. There was a pallet of containers located in the receiving area of Building E5 that were not wrapped and were stacked so that they could easily fall (tipping and leaning against containers on an adjacent pallet).

26. Condition 3.G.10. of the Permit specifies that the vacuum pump on the robberoller automatically shut down when the LEL of the combined dilution air and vacuum pump vent reaches 60%. During the FY2013 inspection, the inspector(s) documented the following:

    a. There were several times on August 7, 2013, when the LEL of the combined dilution air and vacuum pump vent exceeded 60%. There is no documentation showing that the robberoller vacuum pump was shut down when the LEL reached 60%.

27. Condition 4.C.6. of the Permit prohibits CHA from placing wastes or materials with a pH of greater than 12.5 into any of the tank systems in Condition 4.A.2.a. Condition 4.A.2.a. of the Permit includes blend liquids tank T-324. During the FY2013 inspection, the inspector(s) documented the following:

    a. On August 9, 2013 (in a letter dated August 9, 2013), CHA notified the Division that on August 2, 2013, CHA had discovered that it had mixed up two tankers of incoming waste and transferred the wrong one to tank T-324. The waste in the tanker transferred to T-324 was a cyanide-bearing waste with a pH greater than 12.5.

28. Condition 4.D.5. of the Permit requires CHA to maintain the level of the small sludge storage tank at or below the compliance limit specified in Attachment 9. Attachment 9 specifies a compliance limit of 4502 gallons for the small sludge storage tank. During the FY2013 inspection, the inspector(s) documented the following:

    a. On May 6, 2013, the valves were lined out wrong on the sludge system and when material was fed from T-401 (the large sludge tank) to the kiln, it went to T-406 (the small sludge tank) and filled tank T-406 above the compliance level of 4502 gallons. The level indicator showed that the level went as high as 5713 gallons.

29. Condition 4.D.16. of the Permit specifies that the secondary containment systems be operated and maintained so that they are free of both cracks and gaps. During the FY2013 inspection, the inspector(s) documented the following:

    a. The tank farm secondary containment was inspected. Below tanks T-305/T-306 in the floor of the containment area, there was a crack approximately three feet long beyond what was a previous area of repair.

30. Condition 5.A.6 of the Permit requires CHA to comply with the provisions of Attachment 14, the Fume Management Plan. Section 2.0 of the Fume Management Plan specifies that the positive pressure sections of the vent system be monitored annually to ensure that there are no VOC emissions greater than 500 ppm above background. During the FY2013 inspection, the inspector(s) documented the following:

a. There were no measurements of the positive pressure sections of the Procedure-T vents (fans to the incinerator) done during 2012 or as of the date of the inspection in 2013.

31. Condition 5.A.6 of the Permit requires CHA to comply with the provisions of Attachment 14, the Fume Management Plan. Section 2.5 of the Fume Management Plan requires that the carbon in the backup carbon adsorption system be replaced on a regular predetermined time interval. It also specifies that the carbon replacement intervals and any applicable documentation be submitted to the Director within fourteen days of making any change to the carbon replacement interval. The carbon replacement intervals in effect at the time of the FY2013 inspection were based on the letter from Aragonite to the Director dated April 10, 2013. The letter specified the applicable carbon replacement interval as 1,066 hours. During the FY2013 inspection, the inspector(s) documented the following:

a. Inspectors evaluated the time the carbon units were in use versus the time reported on the timers. The carbon in Carbon Unit A (east side) had been used since December 13, 2011. The timer shows that it had accumulated 1,060 hours. However, adding up all of the actual time that the carbon unit was in operation gives a total of 1,171 hours.

32. Condition 5.A.6 of the Permit requires CHA to comply with the provisions of Attachment 14, the Fume Management Plan. Table 2 of the Fume Management Plan specifies that the crane bay man door be sealed during backup operations. During the FY2013 inspection, the inspector(s) documented the following:

a. The inspectors observed that the crane bay man door was not sealed during backup operations.

33. Condition 5.E.5 of the Permit requires CHA to calibrate the monitoring instruments in accordance with Attachment 13. The Instrument Calibration Schedule in Attachment 13 specifies a monthly calibration for AT1122 (Cylinder Station LEL), FT1151 (Kiln Aqueous Flow Rate), WT1102A (Cylinder Weight), and WT1102B (Lecture Bottle Weight). The Instrument Calibration Schedule specifies a quarterly calibration for LS3222 (Tank T-312 High Level Float Switch). The Instrument Calibration Schedule specifies an annual calibration for PSL1157 (Kiln Aqueous Pressure Switch), PSL1107 (Cylinder Eductor N_2 Pressure Switch), and PSL1206 (Glove Box Eductor N_2 Pressure Switch). During the FY2013 inspection, the inspector(s) documented the following:

a. Instruments AT1122 (Cylinder Station LEL), FT1151 (Kiln Aqueous Flow Rate), WT1102A (Cylinder Weight), WT1102B (Lecture Bottle Weight), LS3222 (Tank T-312 High Level Float Switch), PSL1157 (Kiln Aqueous Pressure Switch), PSL1107 (Cylinder Eductor N_2 Pressure Switch), and PSL1206 (Glove Box Eductor N_2 Pressure Switch) were not being calibrated because Aragonite was not using the systems with which they were associated.

34. R315-5-2.20 of the Rules requires that when CHA offers for transportation a rejected hazardous waste, it shall prepare a manifest according to the instructions included in 40 CFR 262, Appendix. Item 9b of the Appendix to 40 CFR 262 requires that CHA enter the U.S. DOT Proper Shipping Name, Hazard Class or Division, Identification Number and Packing Group for each waste. During the FY2013 inspection, the inspector(s) documented the following:

a. Drum 30882665 was shipped from Safety-Kleen Systems in Linden, NJ to Aragonite on line 7 of manifest 003155607SKS. It was shipped as flammable waste aerosols. The drum was found to contain floor dry and absorbent pads. Aragonite rejected the waste. The reject

manifest (006604999FLE) was prepared by CHA. The DOT description of the waste on the reject manifest indicated that it was flammable waste aerosols (even though Aragonite had determined that it was floor dry and absorbent pads instead of aerosols).

35. R315-5-2.23(a)(2) of the Rules requires that when CHA offers for transportation a rejected hazardous waste, it shall obtain the handwritten signature of the initial transporter and date of acceptance on the manifest. R315-5-2.23(g)(1)(i) of the Rules specifies that for rejected shipments of hazardous waste that are returned to the generator by the designated facility, the generator must sign item 20 of the new manifest if a new manifest is used for the return shipment. R315-5-2.23(g)(3) of the Rules specifies that for rejected shipments of hazardous waste that are returned to the generator by the designated facility, the generator must send a copy of the manifest to the designated facility that returned the shipment to the generator within 30 days of delivery of the rejected shipment. During the FY2013 inspection, the inspector(s) documented the following:

    a. CHA rejected the waste for tracking number 29785015 to an alternate facility on manifest 003463434FLE. The manifest was signed by CHA on March 14, 2013, with EPA Mojave CA as the designated facility. Waste tracking shows that the waste left the facility on April 15, 2013. There are no signatures for any transporters picking up the waste. There is no date of acceptance for the initial transporter on the manifest.

    b. On March 1, 2013, CHA shipped drum 28906771 to the Clean Harbors Kimball facility on line 2 of manifest 002590739FLE. Clean Harbors Kimball determined that the waste did not match the profile and rejected it back to Aragonite on manifest 005609494FLE. The drum arrived back at Aragonite on April 26, 2013. CHA did not sign manifest 005609494FLE as the designated facility (item 20). CHA did not send the signed manifest back to the designated facility that returned the shipment to the generator (Clean Harbors Kimball).

36. R315-5-4.42 of the Rules requires CHA to submit an Exception Report to the Director if it has not received a signed copy of the manifest from the alternate facility for rejected shipments of hazardous waste within 45 days of the date the waste was accepted by the initial transporter. During the FY2013 inspection, the inspector(s) documented the following:

    a. Tracking number 29372161 was a tanker of waste shipped from the US EPA Eagle Harbor Superfund Site to Aragonite on manifest 003463388FLE. CHA rejected the waste to an alternate facility (the original generator – US EPA Eagle Harbor Superfund Site) on manifest 003463445FLE. The manifest was never signed by the alternate facility. The transporter took possession of the waste on February 7, 2013. CHA never filed an Exception Report with the Director when it did not receive the signed copy of the manifest from the alternate facility.

    b. Tracking number 29785015 was a rolloff of waste shipped from EPA Mojave CA to Clive on December 7, 2012, on manifest 006193867FLE. It was then shipped from Clive to Aragonite February 8, 2013, on manifest 005347127FLE. CHA rejected the waste to an alternate facility (the original generator – EPA Mojave CA) on manifest 003463434FLE. Waste tracking shows that the waste left Aragonite on April 15, 2013. There was no signature for the alternate facility receiving the waste. CHA did not file an Exception Report with the Director when it did not receive the signed copy of the manifest from the alternate facility.

    c. Drum 30882665 was shipped from Safety-Kleen Systems in Linden, NJ to Aragonite on line 7 of manifest 003155607SKS. CHA rejected the waste to an alternate facility (the original generator – Safety-Kleen Systems) on manifest 006604999FLE. The transporter signed for the

waste on September 4, 2013. There was no copy signed by the alternate facility as of November 21, 2013. CHA did not file an Exception Report with the Director when it did not receive the signed copy of the manifest from the alternate facility.

d. Drum 28906771 was one of 30 drums on line 3 of manifest 000021964DAT. CHA rejected the waste to an alternate facility (the original generator – GEM Rancho Cordova, LLC) on manifest 006517300FLE. CHA shipped the drum on July 23, 2013. A signed copy of manifest 006517300FLE had not been received by CHA as of November 21, 2013. CHA did not file an Exception Report with the Director when it did not receive the signed copy of the manifest from the alternate facility.

37. R315-13-1 of the Rules, which incorporate 40 CFR 268.3(c) by reference, prohibits the combustion of wastes with the codes listed in Appendix XI to 40 CFR 268. Appendix XI includes waste codes D009 and D011.

a. On July 26, 2013 (in a letter dated July 22, 2013), CHA notified the Division that on July 17, 2013, CHA had discovered that on February 28, 2013, CHA had inadvertently consolidated four containers of mercury contaminated batteries for incineration. The container was incinerated on March 1, 2013 and contained wastes with codes D009 and D011.

DETERMINATION OF VIOLATIONS

Based on the foregoing FINDINGS, CHA has violated provisions of the Rules, the Act, and the Permit applicable to its facility. Specifically, CHA has violated the following:

1. Condition 1.P.1. of the Permit by recording inaccurate times that each carbon adsorber is in use.

2. Condition 1.Q.9. and Condition 1.Q.11. of the Permit by failing to notify the Director in writing within seven days each time the emergency vent is opened during operation and by failing to notify the Director in writing within seven days each time the baghouse is bypassed during operation.

3. Condition 2.C.2. of the Permit by accepting and managing water reactive wastes.

4. Condition 2.D. and Section 3.0 of Attachment 1 of the Permit by failing to clearly document the waste characterization procedure from the WAP that applies to each waste stream accepted at the facility.

5. Condition 2.D. and Section 3.3 of Attachment 1 of the Permit by failing to use a matrix that lists the various materials and the corresponding incineration parameters for each of these materials, along with the percentages of each type of material, to develop an overall estimate of the incineration parameters for the waste for "waste that inhibits analysis:" by failing to factor additional information specific to the waste stream obtained from the profile into the calculation of incineration parameters; and by failing to clearly document the method used for determining each of the incineration parameters.

6. Condition 2.D. and Section 4.8 of Attachment 1 of the Permit by grouping together wastes that do not appear to be of the same waste type for sampling and determination of incineration parameters.

7. Condition 2.F. and Attachment 3 of the Permit by failing to note deficiencies on the inspection logs; by failing to generate and reference work orders; by failing to conduct daily inspections for the correct temperature of the laboratory refrigerators and freezers; by failing to conduct daily inspections of the container storage buildings, drum pumping station and Buildings 68 and 69; by failing to conduct weekly inspections to verify that the plant alarms and paging system are audible at Buildings 68 and 69; by failing to conduct weekly inspections of the lab showers and eye-washes; and by failing to document and maintain all inspections as part of the operating record.

8. Condition 2.G., and Section 2.0 of Attachment 4, and Table 2 in Attachment 4 of the Permit by failing to conduct the required personnel training within six months of the date of hire; and by failing to conduct all of the required training.

9. Condition 2.J and Section 11.0 of Attachment 6 of the Permit by failing to submit a written report to the Director within 15 days after fires in areas where waste management occurs.

10. Condition 2.K. of the Permit, and R315-8-5.2(a)(2)(ii) of the Rules, and R315-8-5.4(c) of the Rules by failing to note any manifest discrepancies on each copy of the manifest; by failing to attempt to reconcile a manifest discrepancy with the generator or transporter; and by failing to submit to the Director a letter describing the discrepancy and attempts to reconcile it if the discrepancy is not resolved within 15 days after receiving the waste.

11. Condition 3.B.6. and Section 1.2 of Attachment 8 of the Permit by failing to clearly show in the waste tracking system when the determination was made for material to be rejected; by failing to preserve the date the reject determination was made in the comments section in the waste tracking system; by failing to identify wastes in reject status on the *Drum Reject Report* in the waste tracking system; by storing rejected wastes in Building E-3; by failing to update the date of the waste tracking activity code when a rejected waste is shipped off-site to the actual date the container left the facility; by failing to capture wastes that are initially rejected, but later accepted, on the *Drum Reject Report* in the waste tracking system; and by failing make the determination of acceptance within 60 days of receipt of wastes that are initially rejected and later accepted.

12. Condition 3.B.6. and Section 2.3.1 of Attachment 8 of the Permit by storing incoming vans of containers that cannot be unloaded immediately in areas other than east of the container storage buildings until an unloading dock is available.

13. Condition 3.B.6. and Section 5.2 of Attachment 8 of the Permit by failing, prior to untracking wastes in the waste tracking system, to copy and file in the operating record the tracking history and any other information that will be deleted when the waste becomes untracked.

14. Condition 3.B.6. and Section 6 of Attachment 8 of the Permit by failing to maintain a database of all required equipment, by failing to maintain drawings that show the approximate location of each piece of equipment, and by failing to mark all equipment with a tag containing a unique equipment identification number.

15. Condition 3.D.13. and Section 5 of Attachment 8 of the Permit by: failing to record the location of each container in the container storage areas and to maintain a history of the movement of each container; failing to track wastes in real time so that their location is known at any time; and failing to notify the Director within 30 days of making changes to the waste tracking system for containers that have been lost, and for which CHA has exhausted all methods for resolving these discrepant containers, and for which waste tracking has been updated to clear these containers

from Aragonite's inventory.

16. Condition 3.C.4. of the Permit by storing cyanide-bearing wastes in Building E-2 and by storing oxidizers in Building E-6.

17. Condition 3.C.5. of the Permit by storing compressed gas cylinders in Buildings E-5 for more than 24 hours.

18. Condition 3.D.3. and Section 3.1.3.2 of Attachment 1 of the Permit by placing incompatible waste or materials in the same container and by failing to perform compatibility testing prior to comingling any liquids or sludges.

19. Condition 3.D.9. of the Permit by failing to unload any transport vehicle carrying containers within ten days of being received at the facility.

20. Condition 3.D.15. of the Permit by failing to stack containers neatly, wrapped, or both, to provide stability and in a manner that will not cause them to fall or leak.

21. Condition 3.G.10. of the Permit by failing to automatically shut down the vacuum pump on the robberoller when the LEL of the combined dilution air and vacuum pump vent reaches 60%.

22. Condition 4.C.6. of the Permit by placing wastes with a pH of greater than 12.5 into tank T-324.

23. Condition 4.D.5. of the Permit by filling the small sludge storage tank above the compliance limit.

24. Condition 4.D.16. of the Permit by failing to maintain the tank farm secondary containment systems free of cracks and gaps.

25. Condition 5.A.6 and Section 2.0 of Attachment 14 of the Permit by failing to annually monitor the positive pressure sections of the vent system.

26. Condition 5.A.6 and Section 2.5 of Attachment 14 of the Permit by failing to replace the carbon in Carbon Unit A (east side) after 1,066 hours of use.

27. Condition 5.A.6 and Table 2 of Attachment 14 of the Permit by failing to seal the crane bay man door during backup operations.

28. Condition 5.E.5 of the Permit by failing to calibrate the monitoring instruments in accordance with Attachment 13.

29. R315-5-2.20 of the Rules and Item 9b of the Appendix to 40 CFR 262 by failing to enter the correct U.S. DOT Proper Shipping Name, Hazard Class or Division, Identification Number and Packing Group on the manifest for transportation of a rejected hazardous waste.

30. R315-5-2.23(a)(2) of the Rules and R315-5-2.23(g)(1)(i) of the Rules and R315-5-2.23(g)(3) of the Rules by failing to obtain the handwritten signature of the initial transporter and date of acceptance on the manifest for the transportation of a rejected hazardous waste, by failing to sign item 20 of the new manifest when a new manifest is used for the return shipment of rejected shipments of hazardous waste that are returned to the generator by the designated facility, and by failing to send a copy of the manifest to the designated facility that returned the shipment to the generator within

30 days of delivery of the rejected shipment.

31. R315-5-4.42 of the Rules by failing to submit an Exception Report to the Director when it has not received a signed copy of the manifest from the alternate facility for rejected shipments of hazardous waste within 45 days of the date the waste was accepted by the initial transporter.

32. R315-13-1 of the Rules, which incorporate 40 CFR 268.3(c) by reference, by combusting waste codes listed in Appendix XI to 40 CFR 268 (D009 and D011).

OPPORTUNITY FOR HEARING

This NOTICE OF VIOLATION is effective immediately and shall become final unless CHA administratively contests it. Failure to contest this NOTICE OF VIOLATION in the manner and within the time period prescribed by R305-7-303 of the Utah Administrative Code constitutes a waiver of any right of administrative contest, reconsideration, review or judicial appeal.

Utah Code Ann. Section 19-6-113(2) provides that violation of any order, plan, rule, or other requirement issued or adopted under Title 19, Chapter 6, Part 1 may be subject to a civil penalty of up to $13,000 per day for each day of violation.

Dated this 17th day of April, 2014

By: _____
Scott T. Anderson, Director
Division of Solid and Hazardous Waste

CERTIFICATE OF MAILING

I HEREBY CERTIFY that I mailed a true and correct copy of the foregoing **NOTICE OF VIOLATION on the 17 day of April, 2014, by US Certified Mail, Return receipt Requested, to:**

Michael Marlowe
General Manager
Clean Harbors Aragonite, LLC
P.O. Box 1339
Grantsville, UT, 84029

Terry Montgomery

WASTE MANAGEMENT AND RADIATION CONTROL BOARD
Executive Summary
REQUEST FOR A SITE-SPECIFIC TREATMENT VARIANCE
Energy*Solutions*, LLC
April 11, 2019

What is the issue before the Board?	On March 25, 2019 Energy*Solutions*, LLC submitted a request for a site-specific treatment variance from the Utah Hazardous Waste Management Rules to treat by stabilization, waste containing High-Subcatagory Mercury.
What is the historical background or context for this issue?	Energy*Solutions* requests approval to receive and dispose, in Energy*Solutions'* Mixed Waste Landfill Cell, waste containing the D009 or U151 High Mercury-Organic Subcategory and High Mercury-Inorganic Subcategory hazardous waste codes and has been treated using stabilization/amalgamation technologies. Furthermore, Energy*Solutions* will perform the stabilization/amalgamation treatment on D009 and U151 High Mercury Subcategory waste streams that have not been treated prior to arrival at the Energy*Solutions* Clive facility. All actions will be performed in accordance with Energy*Solutions'* State-issued Part B Permit. The listed treatment technology in 40 CFR 268.40 for the D009 High Mercury-Organic Subcategory is either incineration (IMERC) or retorting/roasting for mercury recovery (RMERC). The listed treatment technology for the D009 High Mercury-Inorganic Subcategory and for U151 is RMERC. The need and justification for this action are as follows: The intent of the RMERC treatment process is to recover elemental mercury for recycling. However, radioactive mercury cannot be recycled and the RMERC process generates secondary waste (radioactive elemental mercury) which requires additional treatment by amalgamation (a stabilization technology) prior to disposal. The IMERC technology is also intended to be a mercury recovery technology where the waste is incinerated and the mercury recovered in the ash or in a specific off-gas control system. For radioactive mercury, both the ash and the control equipment/media will require further treatment. Furthermore, IMERC involves an extra handling step for the radioactive residue. Successful chemical stabilization of High Mercury-Inorganic Subcategory wastes has been demonstrated to achieve a measure of performance equivalent to the required methods which require two treatment methods (RMERC and stabilization) without detrimental effect to human health or the environment.

	The U.S. Environmental Protection Agency (US EPA) has issued a Determination of Equivalent Treatment (DET) for these High Mercury Subcategory wastes that were chemically stabilized. In the EPA's determination, they concluded that for waste streams that are radioactive and contain mercury, the recovery portion of RMERC may not be appropriate and that alternative treatment processes should be pursued. The US EPA has reviewed the treatment of mercury-bearing waste in a Federal Register Notice (68 FR 4481). In this notice, the US EPA concluded that treatment of mercury waste is possible and it is suggested that stakeholders should use the site-specific treatment variance process to achieve approval for the treatment of high subcategory mercury wastes. The notice provides an example of when this would be appropriate as in the case of a high mercury subcategory waste that is also radioactive. This variance request consists of waste that may be shipped to Energy*Solutions* over the next year. To date, Energy*Solutions* has disposed of approximately 11,100 cubic feet of treated High Mercury Subcategory waste. From knowledge of the current market of High Mercury Subcategory Waste requiring treatment or disposal, and from past experience receiving this type of waste, Energy*Solutions* anticipates less than 500 cubic feet of additional High Mercury Subcategory waste for disposal in the next year under this treatment variance. A notice for public comment was published in the *Salt Lake Tribune*, the *Deseret News* and the *Tooele County Transcript Bulletin* on April 2, 2019. The comment period began April 2, 2019, and will end May 2, 2019.
What is the governing statutory or regulatory citation?	Variances are provided for in 19-6-111 of the Utah Solid and Hazardous Waste Act. This is a one-time site-specific variance from an applicable treatment standard as allowed by R315-268.44 of the Utah Administrative Code.
Is Board action required?	No. This is an informational item before the Board.
What is the Division Director's recommendation?	The Director will provide a recommendation at the next Board meeting.
Where can more information be obtained?	For technical questions, please contact Otis Willoughby (801) 536-0220. For legal questions, please contact Bret Randall at (801) 536-0284.

ENERGY*SOLUTIONS*

March 25, 2019 CD19-0070

Mr. Ty Howard
Director
Division of Waste Management and Radiation Control
195 North 1950 West
Salt Lake City, UT 84114-4880

Subject: EPA ID Number UTD982598898 - Request for a Site-Specific Treatment Variance for Wastes Containing High-Subcategory Mercury

Dear Mr. Howard,

Energy*Solutions* hereby requests a variance to receive an exemption from Utah Administrative Code (UAC) R315-268-40(a)(3) for wastes that are characterized with hazardous waste codes D009 or U151, High Mercury-Organic Subcategory or High Mercury-Inorganic Subcategory. This request is submitted in accordance with the requirements of UAC R315-260-19.

The regulatory requirement authorizing this request is found in UAC R315-268-44 which allows a site-specific variance from an applicable treatment standard provided that the following condition is met:

> *UAC R315-268-44(h)(2) It is inappropriate to require the waste to be treated to the level specified in the treatment standard or by the method specified as the treatment standard, even though such treatment is technically possible.*

Energy*Solutions* requests approval to receive and dispose, in Energy*Solutions*' Mixed Waste Landfill Cell, waste containing the D009 or U151 High Mercury-Organic Subcategory and High Mercury-Inorganic Subcategory hazardous waste codes that have been treated using stabilization/amalgamation technologies. Energy*Solutions* will perform the stabilization/amalgamation treatment on D009 and U151 High Mercury Subcategory waste streams that have not been treated prior to arrival at the Energy*Solutions* Clive facility. At the time of disposal, the waste will be verified to have a mercury concentration less than 0.2 mg/L using the Toxicity Characteristic Leaching Procedure (TCLP) or less than 0.25 mg/L TCLP if the waste is a soil matrix. All actions will be performed in accordance with Energy*Solutions*' state-issued Part B Permit.

299 South Main Street, Suite 1700 ▪ Salt Lake City, Utah 84111
(801) 649-2000 ▪ Fax: (801) 880-2879 ▪ www.energysolutions.com

The D009 High Mercury-Organic Subcategory is described in the "Treatment Standards for Hazardous Waste" table in 40 CFR 268.40 (incorporated into UAC R315-268-40 by reference). The description is as follows:

> *Nonwastewaters that exhibit, or are expected to exhibit, the characteristic of toxicity for mercury based on the toxicity characteristic leaching procedure (TCLP) in SW846; and contain greater than or equal to 260 mg/kg total mercury that also contain organics and are not incinerator residues. (High Mercury-Organic Subcategory)*

Likewise, the D009 High Mercury-Inorganic Subcategory's description is as follows:

> *Nonwastewaters that exhibit, or are expected to exhibit, the characteristic of toxicity for mercury based on the toxicity characteristic leaching procedure (TCLP) in SW846; and contain greater than or equal to 260 mg/kg total mercury that are inorganic, including incinerator residues and residues from RMERC. (High Mercury-Inorganic Subcategory)*

The U151 hazardous waste code does not delineate between organic or inorganic; the description simply states the following:

> *U151 (mercury) nonwastewaters that contain greater than or equal to 260 mg/kg total mercury.*

The listed treatment technology in 40 CFR 268.40 for the D009 High Mercury-Organic Subcategory is either incineration (IMERC) or retorting/roasting for mercury recovery (RMERC). The listed treatment technology for the D009 High Mercury-Inorganic Subcategory and for U151 is RMERC.

The need and justification for this action are as follows:

- The intent of the RMERC treatment process is to recover elemental mercury for recycling. However, radioactive mercury cannot be recycled and the RMERC process generates secondary waste (radioactive elemental mercury) which requires additional treatment by amalgamation (a stabilization technology) prior to disposal.

- The IMERC technology is also intended to be a mercury recovery technology where the waste is incinerated and the mercury recovered in the ash or in a

specific off-gas control system. For radioactive mercury, both the ash and the control equipment/media will require further treatment. Furthermore, IMERC involves an extra handling step for the radioactive residue.

- Both IMERC and RMERC are described in Table 1 of UAC R315-268-42. Both descriptions state that

  [A]ll wastewater and nonwastewater residues derived from this process must then comply with the corresponding treatment standards per waste code with consideration of any applicable subcategories (e.g., High or Low Mercury Subcategories).

  For RMERC, this treatment standard is explained as an additional D009 subcategory:

  [N]onwastewaters that exhibit, or are expected to exhibit, the characteristic of toxicity for mercury based on the toxicity characteristic leaching procedure (TCLP) in SW846; and contain less than 260 mg/kg total mercury and that are residues from RMERC only.

  The Land Disposal Restriction (LDR) treatment standard for this subcategory is 0.2 mg/L TCLP (or 0.25 mg/L TCLP alternative treatment standard for contaminated soil described in UAC R315-268-49). For IMERC, the ash and/or control equipment media will be a newly generated hazardous waste and would therefore be required to meet the LDR treatment standard for mercury of 0.2 mg/L. The disposal standard proposed by Energy*Solutions* meets the LDR TCLP concentration in a single step.

- Successful chemical stabilization of High Mercury-Inorganic Subcategory wastes has been demonstrated to achieve a measure of performance equivalent to the required methods which require two treatment methods (RMERC and stabilization) with no detrimental effect to human health or the environment. The U.S. Environmental Protection Agency (US EPA) has issued a Determination of Equivalent Treatment (DET) for these High Mercury Subcategory wastes that were chemically stabilized. In the EPA's determination, they concluded that for waste streams that are radioactive and contain mercury, the recovery portion of RMERC may not be appropriate and that alternative treatment processes should be pursued. A copy of this letter is attached for reference.

- The US EPA has reviewed the treatment of mercury-bearing waste in a Federal Register Notice (68 FR 4481). In this notice, the US EPA concluded that treatment of mercury waste is possible and it is suggested that stakeholders should use the site specific treatment variance process to achieve approval for the treatment of high subcategory mercury wastes. The notice specifically designates an example of when this would be appropriate as the case of a high mercury subcategory waste that is also radioactive.

- Energy*Solutions* has requested similar site-specific treatment variances for High Mercury Subcategory waste in letters dated November 21, 2001; October 21, 2003; April 28, 2004; November 8, 2004; November 29, 2005; December 20, 2006; January 25, 2008; January 20, 2009; January 27, 2010; February 15, 2011; March 21, 2012; March 7, 2013; March 4, 2014; and April 21, 2016. These variance requests were approved on January 8, 2002; December 11, 2003; June 10, 2004; January 13, 2005; January 12, 2006; February 8, 2007; March 13, 2008; March 12, 2009; April 8, 2010; May 12, 2011; May 10, 2012; April 11, 2013; April 10, 2014; June 9, 2016; and September 27, 2017, respectively.

- Over the years that this variance has been granted, Energy*Solutions* and generators have consistently been successful at treating high subcategory mercury to LDR compliant levels.

This variance request consists of waste that is expected to be disposed by Energy*Solutions* over the next year. To date, Energy*Solutions* has disposed of approximately 11,100 cubic feet of treated High Mercury Subcategory waste. From knowledge of the current market of High Mercury Subcategory Waste requiring treatment or disposal, and from past experience receiving this type of waste, Energy*Solutions* anticipates less than 500 cubic feet of additional High Mercury Subcategory waste for disposal in the next year under this treatment variance.

Energy*Solutions* requests that a variance be granted to allow the receipt and disposal of High Mercury Subcategory waste that has been treated either to the 0.2 mg/L TCLP standard for hazardous waste or the 0.25 mg/L TCLP standard for contaminated soil.

The name, phone number, and address of the person who should be contacted to notify Energy*Solutions* of decisions by the Director is:

Mr. Vern Rogers
Director, Operational Waste Management Regulatory Affairs
Energy*Solutions* LLC
299 South Main Street, Suite 1700
Salt Lake City, UT 84111
(801) 649-2000

Should there be any questions to this request, please contact me at (801) 649-2144.

Sincerely,

Timothy L. Orton, P.E.
Environmental Engineer

cc: Don Verbica, DWMRC

enclosure

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Generator: Brookhaven National Laboratory 324
Generator # / Waste Stream #: ~~B000-22~~ 2011-1
Waste Stream Name: BNL Treated Mercury Soil

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
SOLID WASTE AND EMERGENCY
RESPONSE

Mr. George J. Malosh
U.S. Department of Energy
Brookhaven Group Building 464
Upton, NY 11973-5000

Dear Mr. Malosh:

EPA has reviewed your request for a determination of equivalent treatment as authorized by 40 CRF 268.40(b) for the mercury contaminated waste from your facility that will be the subject of treatability studies.

Based on the information provided in your application and conversations between your staff and mine, EPA is approving the request for a determination of equivalent treatment. EPA agrees that RMERC is not appropriate for this waste, due to the generation of elemental mercury that is contaminated with radioactive materials and that has no current use via recycling. Instead, the facility will need to meet a replacement concentration-based treatment standard for this waste, which is detailed in the enclosed determination. This standard does not replace any other applicable federal, state, or local requirements as specified in the facility's waste analysis plan. Additionally, all wastes subject to this determination must be disposed at a facility permitted to accepted the radioactive elements present in the waste following treatment.

Enclosed you will find our determination on your request. If you need further assistance, please contact John Austin, Waste Treatment Branch (703/308-0436).

Sincerely yours,

Elizabeth A.
Cotsworth, Acting
Director
Office of Solid
Waste

Enclosure

cc: Jim Thompson, OWPE
RCRA Hotline

Generator: Brookhaven National Laboratory 324
Generator # / Waste Stream #: ~~8000-22~~ 6646 01
Waste Stream Name: BNL Treated Mercury Soil

Determination of Equivalent Treatment
40 CFR 268.42(b)
Notification of Acceptance

Notification Number: OSW-DE016-0698

Requesting Facility: Brookhaven National Laboratory

Facility Address: U. S. Department of Energy
Brookhaven Group Building 464
Upton, NY 11973-5000

EPA Facility ID #: NY7890008975

Facility Representatives: Gail Penny, Project Manager
(516)344-3229; Email: gpenny@bnl.gov

Glen Todzia, Project Engineer
(516)344-7488

Date of Request: July 1, 1998

Waste Description for Which Replacement Standard is Sought:

The subject wastes consist of (a) treatability samples totaling 4990 kg of RCRA characteristic mercury- and radioactive-contaminated soils and (b) an unspecified amount of residues and newly generated wastes resulting from multiple treatability studies on these samples. The treatability samples are soils that are mostly sand but contain some gravel. Approximately 5% of the treatability sample wastes consists of pieces of glass, metal, and plastic. A summary waste description is given in Table 1.

The subject waste soils were excavated in 1997 from a former land disposal area ("Chemical Holes Area") for miscellaneous laboratory wastes at Brookhaven National Laboratory, in Long Island, New York. The retrieval was performed as a CERCLA removal action. Segregation of the excavated waste into two waste streams was performed by sieving with a 2-inch sieve as the waste was excavated. Only materials that passed through the 2-inch sieve are the subject of the planned treatability studies.

Basis of Request:

The subject mercury-contaminated waste soils (above 260 ppm mercury) are also contaminated with low levels of radioactive materials. The LDR technology specific treatment standard for this waste is RMERC (retorting or roasting with recovery of the mercury for reuse). Retorting or

roasting of the waste is inappropriate because any mercury recovered would still be contaminated with radioactive materials, which would prohibit its recycle or reuse as elemental mercury. The

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Table 1. Initial Waste Descriptions

Waste Container ID	Approximate Volume (yd3)	Approximate Weight (kg)	Total Mercury Concentration (mg/kg)	TCLP Mercury Concentration (mg/l)	Primary Mercury Species	Other RCRA Constituents that exceed TC Regulatory Levels or are Listed Wastes	Waste Description and Treatment/ Regulatory Subcategory	Assigned EPA Waste Code	Applicable LDR Treatment Standard
Bin 1	2	2495	6750	3.56	Elemental*	None Identified	Nonwastewater, High Mercury Subcategory*	D009	RMERC
Bin 2	2	2495	18,000	0.263	Elemental*	None Identified	Nonwastewater, High Mercury Subcategory*	D009	RMERC

1. Determined by visual inspection.

2. Nonwastewaters that exhibit, or are expected to exhibit, the characteristic of toxicity for mercury based on the extraction procedure (EP) in SW 846 Method 1310; and contain greater than or equal to 260 mg/kg total mercury that are inorganic, including residues from RMERC.

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elemental mercury would therefore require further treatment (amalgamation) prior to its ultimate disposal. The subject wastes are proposed to be treated by a variety of methods as part of a treatability study to evaluate treatment options for other legacy wastes within the U. S. Department of Energy (DOE) complex.

DOE has requested a Determination of Equivalent Treatment for the treated treatability study samples and any newly generated >260 ppm Hg wastes that may result from these treatability studies (i.e., treatment residues). The proposed waste disposal location for the treatability study wastes that meet the assigned substitute treatment standard (and any other applicable LDR waste treatment standards) is the Envirocare of Utah, Clive, Utah, low level radioactive waste landfill. Alternatively, the DOE Hanford Site, Richland, Washington low level radioactive waste landfill

may be used. Other landfills that become available in the future and that meet all EPA and other agency requirements (e.g., NRC, DOE, or State) for disposal of such waste may also be considered. In the absence of the requested DET replacement standard, all treatment residues would have to be re-treated by retorting or roasting. Any recovered mercury would have to be amalgamated prior to disposal as low level radioactive waste.

EPA is requested to assign a replacement mercury treatment standard of 0.2 mg/kg TCLP to these treated treatability samples and any resulting newly generated treatment residues. The treated samples and newly generated wastes from the treatability study would still be required to meet applicable existing LDR treatment standards for underlying hazardous constituents other than mercury.

Previously Applicable Treatment Standard for Which Equivalency is Granted:

Waste codes of concern			Nonwastewater
D009	Non wastewaters that exhibit, or are expected to exhibit, the characteristic of toxicity for mercury based on the extraction procedure (EP) in SW846 Method 1310; and contain greater than or equal to 260 mg/kg total mercury that are inorganic, including incinerator residues from RMERC (High Mercury Inorganic Subcategory	Mercury	RMERC

Replacement Treatment Standards:

Waste codes of concern			Nonwastewater
D009	Non wastewaters that exhibit, or are expected to exhibit, the characteristic of toxicity for mercury based on the extraction procedure (EP) in SW846 Method 1310; and contain greater than or equal to 260 mg/kg total mercury that are inorganic, including	Mercury	0.20 mg L TCLP

incinerator residues from RMERC (High Mercury Inorganic Subcategory

Compliance with these standards, as approved below, does not relieve the facility from compliance with any other applicable treatment standards associated with these wastes. This standard does not replace any other applicable federal, state, or local requirements as specified in the facility's waste analysis plan. Additionally, all wastes subject to this determination must be disposed at a facility permitted to accept the radioactive elements present in the waste.

Authorities and References:

A Determination of Equivalent Treatment is governed by 40 CFR 268.42(b), which states: "(b) Any person may submit an application to the Administrator demonstrating that an alternative treatment method can achieve a measure of performance equivalent to that achieved by methods specified in paragraphs (a), (c), and (d) of this section....The applicant must submit information demonstrating that his treatment method is in compliance with federal, state, and local requirements and is protective of human health and the environment. On the basis of such information and any other available information, the Administrator may approve the use of the alternative treatment method if he finds that the alternative treatment method provides a measure of performance equivalent to that achieved by methods specified in paragraphs (a), (c), and (d) of this section. Any approval must be stated in writing and may contain such provisions and conditions as the Administrator deems appropriate. The person to whom such approval is issued must comply with all limitations contained in such a determination."

The above provision was further clarified in the preamble for the Land Disposal Restriction for Third Third Scheduled Wastes: Final Rule. 55 FR at 22536, (June 1, 1990) as follows: "when EPA requires the use of a technology (or technologies), a generator or treater may demonstrate that an alternative treatment method can achieve the equivalent level of

performance as that of the specified treatment method [40 CFR 268.42(b)]. This demonstration is typically both waste-specific and site-specific and may be based on. (1) the development of a concentration based standard that utilized a surrogate or indicator compound that guarantees effective treatment of the hazardous constituents; (2) the development of a new analytical method for quantifying the hazardous constituents, and (3) other demonstrations of equivalence for an alternative method of treatment based on a statistical comparison of technologies, including a comparison of specific design and operating parameters."

Justification for the Equivalent Treatment Standard:

In the context of this treatability study situation, roasting or retorting and recovery of mercury (RMERC) from High Mercury-Inorganic nonwastewater wastes does not appear to be an appropriate treatment method if the wastes are also radioactive. This is because the recovered mercury is expected to be still classified as radioactive material and as such will not be recyclable but will require further treatment prior to its ultimate disposal. Therefore, the earlier recovery step appears not to serve a useful purpose in this particular mixed waste context, and would involve additional waste handling with the attendant concerns about potential exposure to radionuclides. The requested replacement standard for the limited quantity of waste to be subject to the treatability studies is the current LDR concentration-based treatment standard for Low Mercury-Inorganic nonwastewaters that have undergone RMERC, 0.20 mg/L TCLP. Therefore, the wastes will be subject to treatment standards equivalent to those for the residues of the RMERC process, but without having to first undergo a non-useful RMERC step. This is an appropriate measure of equivalent performance and is sufficiently protective of human health and the environment in this particular situation.

Based upon the information submitted, the factors identified above, and the conditions for treatment and disposal set out above, I have determined that the petition for Determination of Equivalent Treatment submitted by DOE on May 20, 1998 is hereby granted, effective upon my signature.

Dated:

Elizabeth A. Cotsworth, Acting Director
Office of Solid Waste

Attachment I - Analytical Data for Wastes to be Subjected to the Treatability Studies

B-25 Container #1

Parameter	Concentration	
Mercury (total)		6750 mg/kg
Mercury (TCLP)		3.56 mg/L
Gross Alpha	4560 pCi/g	
Gross Beta	525 pCi/g	
Plutonium - 238		72.6 pCi/g
Plutonium - 239/240		19.7 pCi/g

Generator: Brookhaven National Laboratory
Generator # / Waste Stream #: [illegible]
Waste Stream Name: BNL Treated Mercury Soil

Americium - 241		7140 pCi/g
Strontium - 90		2.15 pCi/g

B-25 Container #2

Parameter	Concentration	
Mercury (total)		18,000 mg/kg
Mercury (TCLP)		0.263 mg/L
Gross Alpha	24.9 pCi/g	
Gross Beta	35 9 pCi/g	
Plutonium - 238		7.06 pCi/g
Plutonium - 239/240		5.87 pCi/g
Americium - 241		28.67 pCi/g
Strontium - 90		35.5 pCi/g

Attachment 2- DOE Description of Treatment Technologies to be Included in Treatability Studies

The DOE Mixed Waste Focus Area (MWFA) Mercury Contamination Product Line Mercury Working Group (HgWG) is sponsoring demonstrations of alternative advanced technologies for treating toxicity characteristic mixed waste containing more than 260 ppm total mercury concentrations to determine which technologies can produce stable products for disposal that are acceptably protective of human health and the environment. The initial wastes and the final waste forms are to be tested using TCLP to determine if the final waste forms are no longer toxicity characteristic hazardous waste, meet the applicable replacement LDR treatment standard for mercury, and meet any other LDR waste treatment standards determined to be applicable for this waste. Informational testing to provide additional data for use by EPA will also be conducted, including measurement of mercury vapor pressure over the final waste forms, and selected additional leaching tests to be determined in coordination with EPA Office of Solid Waste, EPA's contractor Professor David Kosson (Rutgers University), Brookhaven National Laboratory (BNL), and the MWFA/HgWG.

Mercury Stabilization

A BNL sulfur polymer cement process will be one of the mercury stabilization processes demonstrated.
Commercial vendors will also be contracted to perform stabilization demonstrations. These vendors will
be selected by the HgWG through an open bidding process. Each stabilization process will have been
previously demonstrated on wastes or surrogates with less than 260 ppm total mercury concentration.

Mercury Separation

A mercury separation technology may be included in the demonstration tests. A candidate process uses a
potassium iodide/iodine leaching solution to solubilize and remove mercury. The mercury is recovered
as elemental mercury and amalgamated for disposal. The extractants are recovered and recycled. This
process has already been demonstrated for mercury levels below 260 ppm.

Mercury Retort and Amalgamation

For comparison with the results of the advanced separation and stabilization technologies, an additional
treatability study will be performed using a mobile commercial vacuum retort unit to thermally desorb
mercury, The recovered mercury will be amalgamated for disposal. This will be the baseline technology
to satisfy the existing LDR treatment standard (RMERC) for High Mercury Inorganic Subcategory waste
and the amalgamation (AMALG) treatment standard for
radioactive elemental mercury waste. Amalgamation will be by commercially available processes or by
an advanced sulfur-polymer-cement process developed and used at BNL.

UTAH DIVISION OF WASTE MANAGEMENT AND RADIATION CONTROL
2019 LEGISLATURE
SUMMARY OF PASSED BILLS

HOUSE BILLS

H.B. 32 – Rulemaking Fiscal Accountability Amendments (Rep. Stratton)

-- A proposed rule that has a fiscal impact over a three-year period of more than $250,000 to a single person or $7,500,000 to a group of persons requires submission to the appropriate legislative appropriations subcommittee or interim committee for review before enactment (final adoption)

H.B. 126 - Tire Recycling Modifications (Rep. Perry)

-- Modifies the definition of "crumb rubber" by increasing the size to 3/4";
-- Addresses waste tire transporters complying with this part;

H.B. 220, 4th Substitute - Radioactive Waste Amendments (Rep. Albrecht)

-- Modifies provisions relating to the disposal of radioactive waste
-- Provides that certain waste classifications are determined at the time of acceptance; and
-- Allows the director of the Division of Waste Management and Radiation Control to authorize alternate requirements for waste classification and characteristics that would allow an entity to accept certain waste at a specific site
-- Sets the effective date of the director's authorization to be 90 days from the day of the director's determination
-- Allows the director to determine reasonable assurance of compliance with performance objectives, dose limits, other applicable requirements set forth in rules made by the board
-- Requires notice to the designated legislative committee
-- Directs the director to require certain conditions or actions related to the disposal of more than one metric ton of concentrated DU
-- Imposes tax on the disposal of concentrated DU and certain wastes authorized by the director

H.B. 310, 1st Substitute – Solid and Hazardous Waste Amendments (Rep. Stratton)

-- Modifies the definition of "solid waste" by removing the following wastes:
  * large volume wastes such as inert construction debris used as fill material
  * wastes associated with the exploration, development, or production of oil, gas and geothermal energy
  * wastes from the extraction, beneficiation, and processing of ores and minerals
  * cement kiln dust;
-- Clarifies the role of the board and director regarding the submittal of information prior to the construction, modification, installation, or establishment of a facility in order for the director to determine compliance with implementing rules;
-- Excludes certain facilities from the permitting provisions ; and
-- Makes technical corrections

The change to the definition of "solid waste" is in response to a letter from the Regional Administrator EPA Region 8 requesting the change in order to bring Utah's definition in line with the federal definition in RCRA for statutory equivalency as an authorized state.

SENATE BILLS

S.B. 19 - Sunset Reauthorization - Used Oil Management Act (Sen. Grover)

This bill extends the repeal date of the Used Oil Management Act from July 1, 2019 to July 1, 2029

S.B. 20 - Sunset Reauthorization - Solid and Hazardous Waste Act (Sen. Grover)

This bill extends the repeal date of the Solid and Hazardous Waste Act from July 1, 2019 to July 1, 2029

S.B. 46 - Tire Recycling Amendments (Sen. Sandall)

-- Changes the reimbursement rate to 100% for the cleanup of an abandoned or landfill waste tire pile if tires have been added after July 1, 2001and located in a county of the third, fourth, fifth, or sixth class, and retains the 60% reimbursement rate for the cleanup of an abandoned or landfill waste tire pile if tires have been added after July 1, 2001 and located in a county of the first and second class
-- Expands the reimbursement rate of 60% for the cleanup of an abandoned or landfill waste tire pile if tires have been added after July 1, 2001 to include an interlocal cooperative agency, a special district, or a waste transfer station
-- Requires a county or municipality to submit two bids for waste tire pile cleanups unless impossible to receive two bids