

NOTICE OF PROPOSED RULEMAKING HEARING BEFORE THE COLORADO SOLID AND HAZARDOUS WASTE COMMISSION

SUBJECT:

For consideration of the amendment to 6 CCR 1007-3, Part 261, Appendix IX, along with the accompanying Statement of Basis and Purpose, the following will be considered:

Amendment of 6 CCR 1007-3, Part 261, Appendix IX to Conditionally Delist F019 Hazardous Waste Generated By Golden Aluminum, Inc. located at 1405 East 14th Street, Fort Lupton, CO 80621

This modification is made pursuant to the authority granted to the Solid and Hazardous Waste Commission in Section 25-15-302(2), C.R.S.

Appendix IX of Part 261 is being amended to conditionally delist F019 hazardous waste generated at Golden Aluminum in Fort Lupton, Colorado. This delisting will allow Golden Aluminum to dispose of this waste at a solid waste landfill meeting the requirements of the Colorado Solid Waste Regulations (6 CCR 1007-2).

If adopted by the commission at the November 15, 2022 hearing, a notice of the commission's tentative decision will be published with a 30-day comment period. If no adverse comments are received during the tentative decision comment period, the commission's tentative decision will become the final decision without further notice. If the commission receives adverse comments, the commission will publish a timely withdrawal in the Colorado Register informing the public that the delisting rule will not take effect.

Any information that is incorporated by reference in these proposed rules is available for review at the Colorado Department of Public Health and Environment, Hazardous Materials and Waste Management Division and any state publications depository library.

Pursuant to C.R.S. §24-4-103(3), a notice of proposed rulemaking was submitted to the Secretary of State on October 14, 2022. Copies of the proposed rulemaking will be mailed to all persons on the Solid and Hazardous Waste Commission's mailing list on or before the date of publication of the notice of proposed rulemaking in the Colorado Register on October 25, 2022.

The proposed rulemaking materials may also be accessed at: https://cdphe.colorado.gov/shwc-rulemaking-hearings



WRITTEN TESTIMONY

Any alternative proposals for rules or written comments relating to the proposed amendment of the regulation will be considered. The Solid and Hazardous Waste Commission will accept written testimony and materials regarding the proposed alternatives. The commission strongly encourages interested parties to submit written testimony or materials to the Solid and Hazardous Waste Commission Office, via email to cdphe.hwcrequests@state.co.us by Friday, November 4, 2022, at 11:59 p.m. Written materials submitted in advance will be distributed to the commission members prior to the day of the hearing. Submittal of written testimony and materials on the day of the hearing will be accepted, but is strongly discouraged.

HEARING SCHEDULE:

DATE: Tuesday, November 15, 2022

TIME: 9:00 a.m.

PLACE: Colorado Department of Public Health and Environment

4300 Cherry Creek Drive South Building A, Sabin Conference Room

Denver, CO 80246

(At this time, only Commissioners and staff are able to meet in person.

All other attendance is welcomed virtually via Zoom.)

-OR-

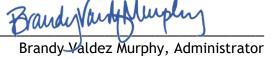
Due to COVID-19 or inclement weather, the meeting will be held

online only at:

https://us02web.zoom.us/meeting/register/tZYvcOytqzMqGdMFvHAearTlU1ErVZtdCubU

Please check for the official location of the meeting on the commission's website: https://cdphe.colorado.gov/shwc-meeting-information

Oral testimony at the hearing regarding the proposed amendments may be limited.





	DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT
	Solid and Hazardous Waste Commission/Hazardous Materials and Waste Management Division
	6 CCR 1007-3
	HAZARDOUS WASTE
	Proposed Golden Aluminum, Inc. F019 Delisting
	1) Appendix IX of Part 261 is amended by deleting and reserving Delisting #7 as follows:
	DELISTING #: 007 RESERVED
	FACILITY: Golden Aluminum, Inc.
	ADDRESS: 1405 East 14th Street, Fort Lupton, CO 80621
	WASTE: Wastewater Treatment Sludge from Aluminum Cleaning and Conversion Coating Operations. EPA Hazardous Waste Code F019 generated after the effective date of this delisting.
	The Solid and Hazardous Waste Commission is hereby removing the conditional delisting granted to the Golden Aluminum, Inc. ("Golden Aluminum") facility in Fort Lupton, Colorado (the "Facility").
:	Golden Aluminum was granted a conditional delisting by the Commission on October 18, 2005 for wastewater treatment sludge (F019 hazardous waste) generated from aluminum cleaning and conversion coating operations at the Facility.
	The delisting was granted under conditions that specified disposal, recordkeeping, and storage requirements for the delisted sludge. The conditional delisting of the F019 waste also prohibited any
	major changes to the chemical conversion coating process or wastewater treatment process without prior notification, evaluation, and approval by the Division.
	On February 12, 2008, the Division received notification from Golden Aluminum indicating that the Facility
	would be converting its titanium conversion coating process to a chrome conversion coating process effective February 18, 2008.
ŧ	Delisting determinations are made on a case-by-case basis with respect to a specific waste generation process. Golden Aluminum's change to a new chromate conversion coating process using hexavalent chromium is a significant change from the titanium conversion coating process described in the Facility's April 8, 2005 delisting petition.
	Golden Aluminum's 2005 delisting no longer covers the wastewater treatment sludge generated at the Facility, and the Facility was notified by the Division on March 24, 2008 that wastewater treatment sludge generated from the new chromate conversion coating process at the Facility must be collected and

managed as a hazardous waste with the waste code of F019.

2) Appendix IX of Part 261 is amended by adding Delisting #11 to read as follows:

PART 261, APPENDIX IX - WASTES EXCLUDED UNDER §§ 260.20 AND 260.22

DELISTING #: 11

FACILITY: Golden Aluminum, Inc.

ADDRESS: 1405 East 14th Street, Fort Lupton, CO 80621

WASTE: Wastewater Treatment Sludge from Aluminum Cleaning and Conversion Coating

Operations. EPA Hazardous Waste Code F019 generated after the effective

date of this delisting.

CONDITIONS: This delisting is valid only for the waste stream specified above and referenced in

the delisting petition submitted on May 12, 2022 and October, 2022 under the

following conditions:

a. Changes to Current Operations

- 1. Golden Aluminum, Inc. must notify the Division at least 30-days prior to implementing any major change to the chemical conversion coating process. A major change is any change including alteration of the current wastewater treatment process or incorporating different chemicals or reagents such that the composition of the wastewater treatment sludge is altered.
- 2. Golden Aluminum, Inc. must notify the Division within 15-days after implementing any change to the wastewater treatment or chemical conversion coating processes that causes a significant change in the type or concentration of any hazardous constituent in the waste or causes the waste to exhibit a hazardous waste characteristic. A significant change is defined as an increase in the total waste concentration for any constituent identified below:

Constituent	Average Concentration (ppm)	2xs the Standard Deviation	Concentration Requiring Notification to the Division (Two Standard Deviations above the Average Concentration)
Arsenic	2.3	1.7	4.0
Barium	7.1	16.0	23.1
Cadmium	Non-detect	Non-detect	Detection
Chromium (Total)	8,335	14,462	22,797
Chromium VI	158	306	464
Copper	4.2	6.0	10.2
Cyanide (amendable)	Non-detect	Non-detect	Detection
Cyanide (free/reactive)	Non-detect	Non-detect	Detection
Lead	4.9	NA	4.9
Mercury	Non-detect	Non-detect	Detection

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125 126 127 A significant change also includes the detection of any additional Part 264, Appendix IX hazardous constituents that are not identified in the above table.

3. The Division reserves the right to re-evaluate and, if necessary, remove this approval or modify these conditions in the event that a significant change, as defined above, is reported by Golden Aluminum, Inc. In such case, the Division may suspend this delisting or impose temporary requirements on the delisted waste until such time as an appropriate amendment to this delisting can be considered by the Solid and Hazardous Waste Commission.

b. Sampling Requirements

Golden Aluminum, Inc. shall conduct annual verification sampling of the delisted waste in January of each year to monitor for any significant change in the type or concentration of any hazardous constituents in the delisted waste. Annual verification sampling shall be submitted to the Division within sixty (60) days of the sampling event for review against initial criteria and sampling methodology for both total waste concentration and Toxicity Characteristic Leaching Procedure (TCLP).

c. Storage Requirements

- 1. The delisted waste generated by Golden Aluminum, Inc. may not be accumulated on-site for a period in excess of one year.
- 2. The volume of delisted waste accumulated on-site may not exceed 20 cubic yards at any given time.
- 3. The delisted waste must be stored in a container that is capable of being closed. The container must be marked or labeled to identify the contents as "delisted waste" and with an accumulation start date. The container must be kept closed except for when waste is being added to or removed from the container.

d. Recordkeeping Requirements

- 1. Golden Aluminum, Inc. shall maintain records of the disposal or recycling of all delisted waste that documents that such activities are in accordance with the delisting petition.
- 2. Golden Aluminum, Inc. shall maintain all records required by paragraph d.1 above for a period of at least three years.

e. Disposal Requirements

The delisted waste shall be disposed in a landfill meeting the requirements of the Colorado Solid Waste Regulations (6 CCR 1007-2).

3) Section 8.101 (Statement of Basis and Purpose for the Rulemaking Hearing of November 15, 2022) is added to Part 8 of the Regulations to read as follows:

Statement of Basis and Purpose Rulemaking Hearing of November 15, 2022

8.101 Basis and Purpose

This amendment to 6 CCR 1007-3, Part 261, Appendix IX is made pursuant to the authority granted to the Solid and Hazardous Waste Commission in § 25-15-302(2), C.R.S.

Amendment of Part 261, Appendix IX to Conditionally Delist F019 Hazardous Waste Generated by Golden Aluminum, Inc. at 1405 East 14th Street in Fort Lupton, Colorado 80621.

Appendix IX of Part 261 is being amended to conditionally delist F019 hazardous waste generated at Golden Aluminum in Fort Lupton, Colorado. This delisting will allow Golden Aluminum to dispose of this waste at a solid waste landfill meeting the requirements of the Colorado Solid Waste Regulations (6 CCR 1007-2) or a metals recycling facility provided it complies with the conditions of the delisting. The Solid and Hazardous Waste Commission (the "Commission") is requiring an annual verification sampling of the delisted waste and the results of that verification sampling must be submitted to the Division within sixty (60) days of the sampling event for review against initial delisting criteria and sampling methodology for both total waste concentration and Toxicity Characteristic Leaching Procedure (TCLP).

Golden Aluminum operates a manufacturing facility in Fort Lupton, Colorado for the production of aluminum sheets for the caning industry. The waste is generated from chromate process on rolled aluminum sheets and has a North American Industry Classification System (NAICS) number of 331315 and 331314 for Secondary Smelting and Alloying of Aluminum and Aluminum Sheet, Plate and Foil manufacturing. Manufacturing processes related to this delisting process include: cleaning, chromating preparation of aluminum for coatings, packaging, and distribution.

As part of the facility's manufacturing processes, aluminum sheets are cold rolled and then cleaned and chromated to allow for a coating process on the aluminum sheets. These aluminum sheets are then used in the canning industry. The rinse waters from these finish processes are pretreated in the facility's permitted industrial wastewater treatment system. Pursuant to the listing description at § 261.31, wastewater treatment sludge generated from the chemical conversion coating of aluminum is classified as F019 hazardous waste. The facility currently generates in excess of one ton per month of F019 hazardous waste.

 The basis for the F019 hazardous waste listing is described in Appendix VII of Part 261 of the hazardous waste regulations. Each listing is based on hazardous constituents that are typically contained in the waste described by the listing. The hazardous constituents that formed the basis for the F019 listing include hexavalent chromium (Chromium VI) and complexed cyanide. Complexed cyanide was not detected in the waste stream

The wastewater treatment process at Golden Aluminum's facility specifically treats the wastewater to reduce the hexavalent chromium to a trivalent chromium. This is achieved by reducing the hexavalent chromium to trivalent chromium for removal by the industrial wastewater treatment system. However, a small percentage of the hexavalent chromium remains in the wastewater treatment sludge. To address this issue, TCLP analysis for hexavalent chromium was performed. Hexavalent chromium was detected above the method detection limit (<0.020 mg/l).

The F019 wastewater sludge filter cakes generated at the Golden Aluminum facility were periodically sampled according to the facility's sampling and analysis plan. This sampling analysis was developed to

demonstrate that the wastewater treatment sludge does not exhibit the toxicity characteristic for the constituents listed in Table 1 of 6 CCR 1007-3 Section 261.24 using the Toxicity Characteristic Leachate Procedure (TCLP).

The results of the TCLP analysis indicated that the waste does not leach any of the 8 RCRA heavy metal constituents analyzed (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver) at concentrations above regulatory standards; and therefore, the waste does not meet the definition of the toxicity characteristic. Analytical testing also indicated the presence of copper, nickel and zinc in the wastewater treatment sludge. However, the concentrations of these constituents were below risk-based levels. The waste also does not exhibit the hazardous waste characteristic of corrosivity, ignitability or reactivity.

Initial laboratory analysis from the May 12, 2022 delisting petition indicated interferences of the analysis with hexavalent chromium. In addition, the Division requested testing for perfluorooctanesulfonic acid (PFOS) and perfluorooctanoic acid (PFOA). While these constituents are not currently regulated compounds, the Division wanted to confirm that they are not present in the waste stream. Three additional samples were collected in August and September of 2022 for this analysis and Eurofins – Test America provided testing for all of the parameters. There was not any PFOS or PFOA found in the waste sludge. In addition, the hexavalent chromium did not experience the interferences and was also found to be non-detect for TCLP. This confirms that the sludge meets the delisting criteria.

A risk evaluation of the wastewater treatment sludge waste was also performed utilizing the EPA program Delisting Risk Assessment Software (DRAS) version 4.0 (EP-S7-05-05 – July 31, 2020). The results of this risk assessment indicated that this waste is suitable for disposal in a Subtitle D landfill.

This delisting is being granted under conditions specifying disposal, record keeping, storage and sampling requirements for the delisted sludge. Conditional delisting of the waste also prohibits any major changes to the chromating operations or wastewater treatment process without prior notification, evaluation, and approval by the Division.

This delisting does not apply to waste that demonstrates a "significant change" as defined in Delisting #011 in Part 261, Appendix IX—Wastes Excluded Under § 260.20 and 260.22(d), or if any of the conditions specified in Part 261, Appendix IX for this delisting are not met. Should either of these occur, the waste is and must be managed as a hazardous waste. While the Commission is approving this conditional delisting for this specific waste at this specific site, the findings and criteria associated with the approval are unique. Other petitions for delisting, even if similar in material or use, will be reviewed by the Division on a case-by-case basis.