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40 CFR Ch. I (7-1-04 Edition)

(a) Section 49.10711. Federal Implementation Plan for the Astaris-Idaho LLC Facility (formerly owned by FMC Corporation) in the Fort Hall PM-10 Nonattainment Area.

(b) 40 CFR 52.21. Prevention of Significant Deterioration Permits

§ 49.10707 EPA-approved tribal rules and plans. [Reserved]

§ 49.10708 Permits to construct.

Permits to construct are required for new major stationary sources and major modifications to existing major stationary sources pursuant to 40 CFR 52.21.

§ 49.10709 Permits to operate. [Reserved]

§ 49.10710 Federally-promulgated regulations and federal implementation plans.

The following regulations are incorporated and made part of the implementation plan for the Shoshone-Bannock Tribes of the Fort Hall Indian Reservation:

(a) Section 49.10711. Federal Implementation Plan for the Astaris-Idaho LLC Facility (formerly owned by FMC Corporation) in the Fort Hall PM-10 Nonattainment Area.

(b) 40 CFR 52.21. Prevention of Significant Deterioration Permits.

§ 49.10711 Federal Implementation Plan for the Astaris-Idaho LLC Facility (formerly owned by FMC Corporation) in the Fort Hall PM-10 Nonattainment Area.

(a) *Applicability.* This section applies to the owner(s) or operator(s) of the Astaris-Idaho LLC's elemental phosphorus facility located on the Fort Hall Indian Reservation in Idaho, including any new owner(s) or operator(s) in the event of a change in ownership or operation of the Astaris-Idaho facility.

(b) *Definitions.* The terms used in this section retain the meaning accorded them under the Clean Air Act, except as follows:

Astaris-Idaho or Astaris-Idaho facility means all of the pollutant-emitting activities that comprise the elemental phosphorus plant owned by or under the common control of Astaris-Idaho LLC in Township 6 south, Range 33

east, Sections 12, 13, and 14, and that lie within the exterior boundaries of the Fort Hall Indian Reservation, in Idaho, including, without limitation, all buildings, structures, facilities, installations, material handling areas, storage piles, roads, staging areas, parking lots, mechanical processes and related areas, and other processes and related areas. For purposes of this section, the term "Astaris-Idaho" or "Astaris-Idaho facility" shall not include pollutant emitting activities located on lands outside the exterior boundaries of the Fort Hall Indian Reservation.

Bag leak detection guidance means Office of Air Quality Planning and Standards (OAQPS): Fabric Filter Bag Leak Detection Guidance, EPA 454/R-98-015 (Sept. 1997).

Begin actual construction means, in general, initiation of physical on-site construction activities on a source which are of a permanent nature. Such activities include, but are not limited to, installation of building supports and foundations, laying of underground pipework, and construction of permanent storage structures. With respect to a change in the method of operating, this term refers to those on-site activities other than preparatory activities which mark the initiation of the change.

Certified observer means a visual emissions observer who has been properly certified using the initial certification and periodic semi-annual recertification procedures of 40 CFR part 60, appendix A, Method 9.

Construction means any physical change or change in the method of operation (including fabrication, erection, installation, demolition, or modification of a source) which would result in a change in actual emissions.

Emergency means any situation arising from sudden and reasonably unforeseeable events beyond the control of the owner or operator of the Astaris-Idaho facility, including acts of God, which requires immediate corrective action to restore normal operation. An emergency shall not include events caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

Emission limitation or emission standard means a requirement which limits the quantity, rate, or concentration of emissions of air pollutants on a continuous basis, including any requirements which limit the level of opacity, prescribe equipment, set fuel specifications, or prescribe operations or maintenance procedures to assure continuous emission reduction.

EPA means United States Environmental Protection Agency, Region 10.

Excess emissions means emissions of an air pollutant in excess of an emission limitation.

Excursion means a departure from a parameter range approved under paragraphs (e)(3) or (g)(1) of this section, consistent with any averaging period specified for averaging the results of monitoring.

Fugitive emissions means those emissions that do not actually pass through a stack, chimney, vent, or other functionally equivalent opening.

Malfunction means any sudden and unavoidable breakdown of process or control equipment. A sudden breakdown which could have been avoided by better operation and maintenance is not a malfunction.

Method 5 is the reference test method described in 40 CFR part 60, appendix A, conducted in accordance with the requirements of this section.

Method 9 is the reference test method described in 40 CFR part 60, appendix A.

Methods 201, 201A, and 202 are the reference test methods described in 40 CFR part 51, appendix M, conducted in accordance with the requirements of this section.

Mini-flush means the process of flushing elemental phosphorus, which has solidified in the secondary condenser, to the elevated secondary condenser flare or to the ground flare, and thus into the atmosphere.

Modification means any physical change in or a change in the method of operation of, an existing source which increases the amount of particulate matter emitted by that source. The following shall not, by themselves, be considered modifications:

(1) Maintenance, repair, and replacement which the Regional Adminis-

trator determines to be routine for the particular source;

(2) An increase in production rate of an existing source, if that increase can be accomplished without a physical change to the source or the Astaris-Idaho facility;

(3) An increase in the hours of operation of an existing source, if that increase can be accomplished without a physical change to the source or the Astaris-Idaho facility;

(4) Use of an alternative fuel or raw material, if the existing source is capable of accommodating that alternative without a physical change to the source or the Astaris-Idaho facility; or

(5) The addition, replacement, or use of any system or device whose primary function is the reduction of an air pollutant, except when an emissions control system is removed or replaced by a system which the Regional Administrator determines to be less environmentally beneficial.

Monitoring malfunction means any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not monitoring malfunctions.

O&M plan means an operation and maintenance plan developed by Astaris-Idaho and submitted to EPA in accordance with paragraph (e)(8) of this section.

Opacity means the degree to which emissions reduce the transmission of light and obscure the view of an object in the background.

Opacity action level means the level of opacity of emissions from a source requiring the owner or operator of the Astaris-Idaho facility to take prompt corrective action to minimize emissions, including without limitation those actions described in the approved operations and maintenance plan.

Owner or operator means any person who owns, leases, operates, controls, or supervises the Astaris-Idaho facility or any portion thereof.

Particulate matter means any airborne finely-divided solid or liquid material with an aerodynamic diameter smaller than 100 micrometers.

PM-10 or PM-10 emissions means finely divided solid or liquid material, with

an aerodynamic diameter less than or equal to a nominal ten micrometers emitted to the ambient air as measured by an applicable reference method such as Method 201, 201A, or 202, of 40 CFR Part 51, appendix M, or an equivalent or alternative method specifically approved by the Regional Administrator.

Regional Administrator means the Regional Administrator, EPA Region 10, or a duly designated representative of the Regional Administrator.

Road means access and haul roads, driveways or established vehicle paths, permanent or temporary, which are graded, constructed, used, reconstructed, improved, or maintained for use in vehicle movement throughout the Astaris-Idaho facility.

Shutdown means the cessation of operation of a source for any purpose.

Slag Pit Area means the area of the Astaris-Idaho facility immediately bordering the south side of the furnace building extending out 100 yards.

Source means any building, structure, facility, installation, material handling area, storage pile, road, staging area, parking lot, mechanical process or related area, or other process or related area which emits or may emit particulate matter.

Startup means the setting in operation of a source for any purpose.

Title V permit means an operating permit issued under 40 CFR part 70 or 71.

Tribes means the Shoshone-Bannock Tribes.

Visible emissions means the emission of pollutants into the atmosphere, excluding uncombined condensed water vapor (steam), that is observable by the naked eye.

Visual observation means the continuous observation of a source for the presence of visible emissions for a period of ten consecutive minutes conducted in accordance with section 5 of EPA Method 22, 40 CFR part 60, appendix A, by a person who meets the training guidelines described in section 1 of Method 22.

(c) *Emission limitations and work practice requirements.* (1)(i) Except as otherwise provided in paragraphs (c)(1)(ii), (c)(1)(iii), and (c)(2) of this section, there shall be no visible emissions from any location at the Astaris-Idaho facil-

ity at any time, as determined by a visual observation.

(ii) Emissions from the following equipment, activities, processes, or sources shall not exceed 20% opacity over a six minute average. Method 9, of 40 CFR part 60, appendix A, is the reference test method for this requirement.

(A) Brazing, welding, and welding equipment and oxygen-hydrogen cutting torches;

(B) Plant upkeep, including routine housekeeping, preparation for and painting of structures;

(C) Grinding, sandblasting, and cleaning operations that are not part of a routine operation or a process at the Astaris-Idaho facility;

(D) Cleaning and sweeping of streets and paved surfaces;

(E) Lawn and landscaping activities;

(F) Repair and maintenance activities;

(G) Landfill operations;

(H) Laboratory vent stacks; and

(I) Pond piping discharges.

(iii) Except as otherwise provided in paragraph (c)(1)(ii) of this section, emissions from equipment, activities, processes, or sources not identified in Table 1 to this section shall not exceed 10% opacity over a six minute average provided that Astaris-Idaho has complied with the requirements of paragraph (c)(11) of this section and provided further that a more stringent opacity limit has not been established for the source in this section. Method 9, 40 CFR Part 60, appendix A, is the reference test method for this requirement.

(2) For each source identified in Column II of Table 1 to this section, the owner or operator of the Astaris-Idaho facility shall comply with the emission limitations and work practice requirements for that source established in Column III of Table 1 to this section.

(3) The opacity limits for the following fugitive emission sources, which are also identified in Column II of Table 1 to this section, apply to adding of material to, taking of material from, reforming, or otherwise disturbing the pile: main shale pile (Table 1 of this section, source 2), emergency/contingency raw ore shale pile (Table 1 of this section, source 3), stacker and

reclaimer (Table 1 of this section, source 4), recycle material pile (Table 1 of this section, source 8b), nodule pile (Table 1 of this section, source 11), and screened shale fines pile (Table 1 of this section, source 14).

(4)(i) Except as provided in paragraph (c)(4)(ii) of this section, beginning November 1, 2000, the following activities shall be prohibited:

(A) The discharge of molten slag from furnaces or slag runners onto the ground, pit floors (whether dressed with crushed slag or not), or other non-mobile permanent surface.

(B) The digging of solid slag in the slag pit area or the loading of slag into transport trucks in the slag pit area.

(ii) The prohibition set forth in paragraph (c)(4)(i) of this section shall not apply to the lining of slag pots and the handling (including but not limited to loading, crushing, or digging) of cold slag for purposes of the lining of slag pots.

(5)(i) Beginning January 1, 2001, no furnace gas shall be burned in the existing elevated secondary condenser flare or the existing ground flare (Table 1 of this section, source 26a).

(ii) Until December 31, 2000, the owner or operator of the Astaris-Idaho facility shall take the following measures to reduce PM-10 emissions from mini-flushes and to ensure there is no bias toward conducting mini-flushes during night-time hours.

(A) Mini-flushes shall be limited to no more than 50 minutes per day (based on a monthly average) beginning January 1, 1999. Failure to meet this limit for any given calendar month will be construed as a separate violation for each day during that month that mini-flushes lasted more than 50 minutes. The monthly average for any calendar month shall be calculated by summing the duration (in actual minutes) of each mini-flush during that month and dividing by the number of days in that month.

(B)(1) No mini-flush shall be conducted at any time unless one of the following operating parameters is satisfied:

(j) The flow rate of recirculated phosy water is equal to or less than 1800 gallons per minute; or

(ii) The secondary condenser outlet temperature is equal to or greater than 36 degrees Centigrade.

(2) The prohibition set forth in paragraph (c)(5)(ii)(B)(1) of this section shall not apply during periods of malfunction or emergency, provided the owner or operator of the Astaris-Idaho facility complies with the requirements of paragraph (c)(9) of this section.

(6) At all times, including periods of startup, shutdown, malfunction, or emergency, the owner or operator of the Astaris-Idaho facility shall, to the extent practicable, maintain and operate each source of PM-10 at the Astaris-Idaho facility, including without limitation those sources identified in Column II of Table 1 to this section and associated air pollution control equipment, in a manner consistent with good air pollution control practices for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Regional Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

(7) Maintaining operation of a source within approved parameter ranges, promptly taking corrective action, and otherwise following the work practice, monitoring, record keeping, and reporting requirements of this section do not relieve the owner or operator of the Astaris-Idaho facility from the obligation to comply with applicable emission limitations and work practice requirements at all times.

(8) An affirmative defense to a penalty action brought for emissions in excess of an emission limitation shall be available if the excess emissions were due to startup or shutdown and all of the following conditions are met:

(i) The owner or operator of the Astaris-Idaho facility notifies EPA and the Tribes in writing of any startup or shutdown that is expected to cause excess emissions. The notification shall be given as soon as possible, but no later than 48 hours prior to the start of the startup or shutdown, unless the owner or operator demonstrates to

EPA's satisfaction that a shorter advanced notice was necessary. The notice shall identify the expected date, time, and duration of the excess emissions event, the source involved in the excess emissions event, and the type of excess emissions event.

(ii) The periods of excess emissions that occurred during startup or shutdown were short and infrequent and could not have been prevented through careful planning and design.

(iii) The excess emissions were not part of a recurring pattern indicative of inadequate design, operation, or maintenance.

(iv) If the excess emissions were caused by a bypass (an intentional diversion of control equipment), then the bypass was unavoidable to prevent loss of life, personal injury, or severe property damage.

(v) At all times, the facility was operated in a manner consistent with good practice for minimizing emissions.

(vi) The frequency and duration of operation in startup or shutdown mode was minimized to the maximum extent practicable.

(vii) All possible steps were taken to minimize the impact of the excess emissions on ambient air quality.

(viii) All emission monitoring systems were kept in operation if at all possible.

(ix) The owner or operator's actions during the period of excess emissions were documented by properly signed, contemporaneous operating logs, or other relevant evidence.

(x) The owner or operator of the Astaris-Idaho facility submitted notice of the startup or shutdown to EPA and the Tribes within 48 hours of the time when emission limitations were exceeded due to startup or shutdown. This notice fulfills the requirement of paragraph (g)(5) of this section. This notice must contain a description of the startup or shutdown, any steps taken to mitigate emissions, and corrective actions taken.

(xi) No exceedance of the 24-hour PM-10 National Ambient Air Quality Standard, 40 CFR 50.6(a) was recorded on any monitor located within the Fort Hall PM-10 nonattainment area that regularly reports information to the

Aerometric Information Retrieval System-Air Quality Subsystem, as defined under 40 CFR 58.1(p), on any day for which the defense of startup or shutdown is asserted.

(xii) In any enforcement proceeding, the owner or operator of the Astaris-Idaho facility has the burden of proof on all requirements of this paragraph (c)(8).

(9) An affirmative defense to a penalty action brought for emissions in excess of an emission limitation shall be available if the excess emissions were due to an emergency or malfunction and all of the following conditions are met:

(i) The excess emissions were caused by a sudden, unavoidable breakdown of technology, beyond the control of the owner or operator of the Astaris-Idaho facility.

(ii) The excess emissions;

(A) Did not stem from any activity or event that could have been foreseen and avoided or planned for; and

(B) Could not have been avoided by better operation and maintenance practices.

(iii) To the maximum extent practicable the air pollution control equipment or processes were maintained and operated in a manner consistent with good practice for minimizing emissions.

(iv) Repairs were made in an expeditious fashion when the operator knew or should have known that applicable emission limitations were being exceeded. Off-shift labor and overtime must have been utilized, to the extent practicable, to ensure that such repairs were made as expeditiously as practicable.

(v) The amount and duration of the excess emissions (including any bypass) were minimized to the maximum extent practicable during periods of such emissions.

(vi) All possible steps were taken to minimize the impact of the excess emissions on ambient air quality.

(vii) All emission monitoring systems were kept in operation if at all possible.

(viii) The owner or operator's actions in response to the excess emissions were documented by properly signed,

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contemporaneous operating logs, or other relevant evidence.

(ix) The excess emissions were not part of a recurring pattern indicative of inadequate design, operation, or maintenance.

(x) The owner or operator of the Astaris-Idaho facility submitted notice of the emergency or malfunction to EPA and the Tribes within 48 hours of the time when emission limitations were exceeded due to the emergency or malfunction. This notice fulfills the requirement of paragraph (g)(5) of this section. This notice must contain a description of the emergency or malfunction, any steps taken to mitigate emissions, and corrective actions taken.

(xi) No exceedance of the 24-hour PM-10 National Ambient Air Quality Standard, 40 CFR 50.6(a), was recorded on any monitor located within the Fort Hall PM-10 nonattainment area that regularly reports information to the Aerometric Information Retrieval System-Air Quality Subsystem, as defined under 40 CFR 58.1(p), on any day for which the defense of emergency or malfunction is asserted.

(xii) In any enforcement proceeding, the owner or operator of the Astaris-Idaho facility has the burden of proof on all requirements of this paragraph (c)(9).

(10) For each source identified in Column II of Table 2 to this section, the owner or operator of the Astaris-Idaho facility shall take appropriate actions to reduce visible emissions from the source if opacity exceeds the opacity action level for that source identified in Column III of Table 2 of this section. Such actions shall be commenced as soon as possible but not to exceed 24 hours after an exceedance of the opacity action level is first identified and shall be completed as soon as possible. Such actions shall include, but not be limited to, those actions identified in the O&M plan for the source. Exceedance of an opacity action level does not constitute a violation of this section, but failure to take appropriate corrective action as identified in this paragraph (c)(10) does constitute a violation of this section.

(11) The owner or operator of the Astaris-Idaho facility shall notify EPA prior to the construction of a new

source of PM-10 at the Astaris-Idaho facility or the modification of an existing source at the Astaris-Idaho facility in a manner that increases emissions of PM-10 as follows:

(i) Such notification shall be submitted to EPA at least 90 days prior to commencement of the construction or modification.

(ii) Such notification shall include the following information:

(A) A description of the source, including location of the process and associated control equipment, and any modification thereto;

(B) An estimate of potential PM-10 emissions from the source on both a 24-hour and annual basis, without consideration of any proposed air pollution control equipment;

(C) The expected daily hours of operation of the source, including any seasonal variation, and an estimate of actual PM-10 emissions from the source on both a 24-hour and annual basis, considering the effect of any proposed air pollution control equipment; and

(D) A description of any PM-10 control technology to be implemented at the source along with an analysis of alternative control technologies considered but rejected.

(iii) Any source identified in this section shall continue to be subject to the requirements of this section notwithstanding the modification of the source.

(iv) The requirements of this paragraph (c)(11) are in addition to any other requirements to obtain a permit under the Clean Air Act.

(v) This paragraph (c)(11) shall cease to apply if either of the following events occur:

(A) EPA promulgates a minor new source review program for PM-10 that applies to the Astaris-Idaho facility; or

(B) The Tribes promulgate a minor new source review program for PM-10 that applies to the Astaris-Idaho facility and EPA approves the Tribes' program under of this part.

(vi) If, after receipt of the notice referred to in this paragraph (c)(11), EPA notifies Astaris-Idaho in writing that a 90 day delay in the commencement of construction or modification is not required, Astaris-Idaho may proceed with the commencement of the construction

or modification as described in the notice, subject to the other requirements of this section.

(d) *Reference test methods.* (1) For each source identified in Column II of Table 1 to this section, the reference test method for the corresponding emission limitation in Column III of Table 1 to this section for that source is identified in Column IV of Table 1 to this section. For each source identified in Column II of Table 2 to this section, the reference test method for the corresponding opacity action level in Column III of Table 2 to this section for that source is identified in Column IV of Table 2 to this section.

(2) When Method 201/201A or Methods 201/201A and 202 of 40 CFR Part 60, appendix A, are specified as the reference test methods, the testing shall be conducted in accordance with the identified test methods and the following additional requirements:

(i) Each test shall consist of three runs, with each run a minimum of one hour.

(ii) Method 202 shall be run concurrently with Method 201 or Method 201A. Unless Method 202 is specifically designated as part of the reference test method, Method 202 shall be performed on each source for informational purposes only and the results from the Method 202 test shall not be included in determining compliance with the mass emission limit for the source.

(iii) The source shall be operated at a capacity of at least 90% of maximum during all tests unless the Regional Administrator determines in writing that other operating conditions are representative of normal operations.

(iv) Only regular operating staff may adjust the processes or emission control device parameters during a performance test or within two hours prior to the tests. Any operating adjustments made during a performance test, which are a result of consultation during the tests with source testing personnel, equipment vendors, or other consultants may render the source test invalid.

(v) For all reference tests, the sampling site and minimum number of sampling points shall be selected according to EPA Method 1 (40 CFR part 60, appendix A).

(vi) EPA Methods 2, 2C, 2D, 3, 3A, and 4 (40 CFR part 60, appendix A) shall be used, as appropriate, for determining mass emission rates.

(vii) The mass emission rate of PM-10 shall be determined as follows:

(A)(1) Where Method 201/201A is identified as the reference test method, the mass emission rate of PM-10 shall be determined by taking the results of the Method 201/201A test and then multiplying by the average hourly volumetric flow rate for the run.

(2) Where Methods 201/201A and 202 are identified as the reference test methods, the mass emission rate of PM-10 shall be determined by first adding the PM-10 concentrations from Methods 201/201A and 202, and then multiplying by the average hourly volumetric flow rate for the run.

(B) The average of the three required runs shall be compared to the emission standard for purposes of determining compliance.

(viii) Two of the three runs from a source test of each Medusa-Andersen stack on the furnace building (Table 1 of this section, sources 18d, 18e, 18f, and 18g) shall include at least 20 minutes of slag tapping and a third run shall include at least 20 minutes of metal tapping.

(ix) At least one of the three runs from a source test of the excess CO burner (Table 1 of this section, source 26b) shall be conducted during either a mini-flush or hot-flush that lasts for at least 30 minutes.

(3) Method 5 shall be used in place of Method 201 or 201A for the calciner scrubbers (Table 1 of this section, source 9a) and any other sources with entrained water drops. In such case, all the particulate matter measured by Method 5 must be counted as PM-10, and the testing shall be conducted in accordance with paragraph (d)(2) of this section.

(4) Method 5 may be used as an alternative to Method 201 or 201A for a particular point source, provided that all of the particulate measured by Method 5 is counted as PM-10 and the testing is conducted in accordance with paragraph (d)(2) of this section.

(5)(i) An alternative reference test method or a deviation from a reference

test method identified in this section may be approved as follows:

(A) The owner or operator of the Astaris-Idaho facility must submit a written request to the Regional Administrator at least 60 days before the performance test is scheduled to begin which includes the reasons why the alternative or deviation is needed and the rationale and data to demonstrate that the alternative test method or deviation from the reference test method:

(1) Provides equal or improved accuracy and precision as compared to the specified reference test method; and

(2) Does not decrease the stringency of the standard as compared to the specified reference test method.

(B) If requested by EPA, the demonstration referred to in paragraph (d)(5)(i)(A) of this section must use Method 301 in 40 CFR part 63, appendix A to validate the alternative test method or deviation.

(C) The Regional Administrator must approve the request in writing.

(ii) Until the Regional Administrator has given written approval to use an alternative test method or to deviate from the reference test method, the owner or operator of the Astaris-Idaho facility is required to use the reference test method when conducting a performance test pursuant to paragraph (e)(1) of this section.

(6) For the purpose of submitting compliance certifications or establishing whether or not a person has violated or is in violation of any requirement of this section, nothing in this section shall preclude the use, including the exclusive use, of any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or reference test or procedure had been performed.

(e) *Monitoring and additional work practice requirements.* (1) The owner or operator of the Astaris-Idaho facility shall conduct a performance test to measure PM-10 emissions as follows:

(i) The owner or operator of the Astaris-Idaho facility shall conduct a performance test to measure PM-10 emissions from each of the following sources on an annual basis using the specified reference test methods: east

shale baghouse (Table 1 of this section, source 5a), middle shale baghouse (Table 1 of this section, source 6a), west shale baghouse (Table 1 of this section, source 7a), calciner cooler vents (Table 1 of this section, source 10), north nodule discharge baghouse (Table 1 of this section, source 12a), south nodule discharge baghouse (Table 1 of this section, source 12b), proportioning building-east nodule baghouse (Table 1 of this section, source 15a), proportioning building-west nodule baghouse (Table 1 of this section, source 15b), nodule stockpile baghouse (Table 1 of this section, source 16a), dust silo baghouse (Table 1 of this section, source 17a), furnace building-east baghouse (Table 1 of this section, source 18a), furnace building-west baghouse (Table 1 of this section, source 18b), furnace #1, #2, #3, and #4—Medusa-Andersen scrubbers (Table 1 of this section, sources 18d, 18e, 18f and 18g), coke handling baghouse (Table 1 of this section, source 20a), and phos dock-Andersen scrubber (Table 1 of this section, source 21a).

(A) The first annual test for each source shall be completed within 16 months of August 23, 2000. Subsequent annual tests shall be completed within 12 months of the most recent previous test.

(B) If, after conducting annual source tests for a particular source for two consecutive years, the emissions from that source are less than 80% of the applicable emission limit, then the frequency of source testing for that source may be reduced to every other year. The frequency of source testing shall revert to annually if the emissions from any source test on the source are greater than or equal to 80% of the applicable emission limit.

(ii) The owner or operator of the Astaris-Idaho facility shall conduct a performance test to measure PM-10 emissions from the calciner scrubbers (Table 1 of this section, source 9a) and the excess CO burner (Table 1 of this section, source 26b) on a semi-annual basis using the specified reference test methods.

(A) The first semi-annual performance test for each source shall be conducted within 90 days after the date on which the PM-10 emission limitations

become applicable to the source. Subsequent semi-annual tests shall be completed within 6 months of the most recent previous test.

(B) If, after conducting semi-annual source tests for the calciners or the excess CO burner for two consecutive years, the emissions from that source during each of the four previous consecutive semi-annual tests are less than 80% of the applicable emission limit, then the frequency of source testing for the source may be reduced to annual testing. The frequency of source testing shall revert to semi-annually if the emissions from any source test on the source are greater than or equal to 80% of the applicable emission limit.

(iii) The owner or operator of the Astaris-Idaho facility shall conduct a performance test to determine the control efficiency of the calciner scrubbers (Table 1 of this section, source 9a) and the excess CO burner (Table 1 of this section, source 26b) using the specified reference test methods as follows:

(A) A performance test for the calciner scrubbers shall be conducted within 90 days after the date on which the PM-10 emission limitations become applicable to the source.

(B) The first performance test for the excess CO burner shall be conducted within 90 days after the date on which the PM-10 emission limitations become applicable to the source. Subsequent semi-annual tests shall be completed within 6 months of the most recent previous test.

(C) If, after conducting semi-annual source tests for the excess CO burner for two consecutive years, the emissions from that source during each of the four previous consecutive semi-annual tests are less than 80% of the mass emission limit, then the frequency of source testing for the control efficiency requirement for the excess CO burner may be reduced to annual testing. The frequency of source testing shall revert to semi-annually if the emissions from any source test on the source are greater than or equal to 80% of the mass emission limit.

(iv) If a source test indicates an exceedence of the emission limit applicable to the source, the owner or operator of the Astaris-Idaho facility shall

conduct a performance test of that source within 90 days of the source test showing the exceedence. The schedule for conducting future source tests shall not be affected by this requirement.

(v) The time period for conducting any source test may be extended by a period of up to 90 days provided that:

(A) The owner or operator of the Astaris-Idaho facility submits a written request to the Regional Administrator at least 30 days prior to the expiration of the time period for conducting the test which demonstrates the need for the extension; and

(B) The Regional Administrator approves the request in writing.

(vi) The owner or operator of the Astaris-Idaho facility shall provide the Regional Administrator a proposed test plan at least 30 days in advance of each scheduled source test. If the proposed test plan is unchanged for the next scheduled source test on the source, the owner or operator of the Astaris-Idaho facility shall not be required to resubmit a source test plan. Astaris-Idaho shall submit a new source test plan to EPA in accordance with this paragraph (e)(1) if the proposed test plan will be different from the immediately preceding source test plan that had been submitted to EPA.

(vii) The owner or operator of the Astaris-Idaho facility shall provide the Regional Administrator at least 30 days prior written notice of any performance test required under this section to afford the Regional Administrator the opportunity to have an observer present. If after 30 days notice for an initially scheduled performance test, there is a delay (due to operational problems, etc.) in conducting the scheduled performance test, the owner or operator of the Astaris-Idaho facility shall notify the Regional Administrator as soon as possible of any delay in the original test date, either by providing at least 7 days prior notice of the rescheduled date of the performance test or by arranging a rescheduled date with the Regional Administrator by mutual agreement.

(viii)(A) The owner or operator of the Astaris-Idaho facility shall provide, or cause to be provided, performance testing facilities as follows:

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(1) Sampling ports adequate for test methods applicable to the source. This includes:

(i) Constructing any new or modified air pollution control system such that volumetric flow rates and pollutant emission rates can be accurately determined by the applicable test methods and procedures; and

(ii) Except with respect to the calciner scrubber stacks (Table 1 of this section, source 9a), providing a stack or duct free of cyclonic flow during performance tests, as demonstrated by applicable test methods and procedures.

(2) Safe sampling platforms.

(3) Safe access to sampling platforms.

(4) Utilities for sampling and testing equipment.

(B) A modification to these requirements can be approved with respect to a particular source provided that:

(1) The owner or operator of the Astaris-Idaho facility submits a written request to the Regional Administrator which demonstrates the need for the modification; and

(2) The Regional Administrator approves the request in writing.

(ix) During each test run and for at least two hours prior to the test and two hours after the test is completed, the owner or operator of the Astaris-Idaho facility shall monitor and record the parameters specified in paragraphs (e)(2), (e)(3), (e)(4), (e)(5), and (e)(6) of this section, as appropriate, for the source being tested, and shall report the results to EPA as part of the performance test report referred to in paragraph (g)(3)(i)(G) of this section.

(x) The owner or operator of the Astaris-Idaho facility shall conduct a 12 minute visible emission observation using Method 9 of 40 CFR Part 60, appendix A, at least twice during the performance test at an interval of no less than one hour apart, and shall report the results of this observation to EPA as part of the performance test report referred to in paragraph (g)(3)(i)(G) of this section.

(xi) Concurrently with the performance testing, the owner or operator of the Astaris-Idaho facility shall measure the flow rate (throughput to the control device) using Method 2 of 40 CFR Part 60, appendix A, for the

calciner scrubbers (Table 1 of this section, source 9a) and the phos dock Andersen scrubber (Table 1 of this section, source 21a) and shall report the results to EPA as part of the performance test report referred to in paragraph (g)(3)(i)(G) of this section.

(2) The owner or operator of the Astaris-Idaho facility shall install, calibrate, maintain, and operate in accordance with the manufacturer's specifications a device to continuously measure and continuously record the pressure drop across the baghouse for each of the following sources identified in Column II of Table I: east shale baghouse (Table 1 of this section, source 5a), middle shale baghouse (Table 1 of this section, source 6a), west shale baghouse (Table 1 of this section, source 7a), north nodule discharge baghouse (Table 1 of this section, source 12a), north reclaim baghouse (Table 1 of this section, source 13), south nodule discharge baghouse (Table 1 of this section, source 12b), proportioning building-east nodule baghouse (Table 1 of this section, source 15a), proportioning building-west nodule baghouse (Table 1 of this section, source 15b), nodule stockpile baghouse (Table 1 of this section, source 16a), dust silo baghouse (Table 1 of this section, source 17a), furnace building-east baghouse (Table 1 of this section, source 18a), furnace building-west baghouse (Table 1 of this section, source 18b), and coke handling baghouse (Table 1 of this section, source 20a).

(i) The devices shall be installed and fully operational no later than 210 days after August 23, 2000.

(ii) Upon EPA approval of the acceptable range of baghouse pressure drop for each source, as provided in paragraph (g)(1) of this section, the owner or operator of the Astaris-Idaho facility shall maintain and operate the source to stay within the approved range. Until EPA approval of the acceptable range of baghouse pressure drop for each source, the owner or operator of the Astaris-Idaho facility shall maintain and operate the source to stay within the proposed range for that source, as provided in paragraph (g)(1) of this section.

(iii) If an excursion from an approved range occurs, the owner or operator of the Astaris-Idaho facility shall immediately upon discovery, but no later than within three hours of discovery, initiate corrective action to bring source operation back within the approved range.

(iv) The owner or operator of the Astaris-Idaho facility shall complete the corrective action as expeditiously as possible.

(3) The owner or operator of the Astaris-Idaho facility shall install, calibrate, maintain, and operate in accordance with the manufacturer's specifications and the bag leak detection guidance a triboelectric monitor to continuously monitor and record the readout of the instrument response for each of the following sources identified in Column II of Table 1 to this section: east shale baghouse (Table 1 of this section, source 5a), middle shale baghouse (Table 1 of this section, source 6a), west shale baghouse (Table 1 of this section, source 7a), north nodule discharge baghouse (Table 1 of this section, source 12a), south nodule discharge baghouse (Table 1 of this section, source 12b), north reclaim baghouse (Table 1 of this section, source 13), proportioning building-east nodule baghouse (Table 1 of this section, source 15a), proportioning building-west nodule baghouse (Table 1 of this section, source 15b), nodule stockpile baghouse (Table 1 of this section, source 16a), dust silo baghouse (Table 1 of this section, source 17a), furnace building-east baghouse (Table 1 of this section, source 18a), furnace building-west baghouse (Table 1 of this section, source 18b), and coke handling baghouse (Table 1 of this section, source 20a).

(i) The triboelectric monitors shall be installed and fully operational no later than 210 days after August 23, 2000.

(ii) The owner or operator of the Astaris-Idaho facility shall maintain and operate the source to stay within the approved range. For the triboelectric monitors, the "approved range" shall be defined as operating the source so that an "alarm," as defined in and as determined in accordance with

the bag leak detection guidance, does not occur.

(iii) If an excursion from an approved range occurs, the owner or operator of the Astaris-Idaho facility shall immediately upon discovery, but no later than within three hours of discovery, initiate corrective action to bring source operation back within the approved range.

(iv) The owner or operator of the Astaris-Idaho facility shall complete the corrective action as expeditiously as possible.

(4) The owner or operator of the Astaris-Idaho facility shall install, calibrate, maintain, and operate in accordance with the manufacturer's specifications, a device to continuously measure and continuously record the pressure drop across the scrubber and the scrubber liquor flowrate for each of the calciner scrubbers (Table 1 of this section, source 9a).

(i) The devices for the calciner scrubbers (Table 1 of this section, source 9a) shall be installed and fully operational on or before December 1, 2000.

(ii) Upon EPA approval of the acceptable range of pressure drop, scrubber liquor flow rate, and scrubber liquor pH for the calciner scrubbers, as provided in paragraph (g)(1) of this section, the owner or operator of the Astaris-Idaho facility shall maintain and operate the source to stay within the approved range. Until EPA approval of the acceptable ranges for each source, the owner or operator of the Astaris-Idaho facility shall maintain and operate the calciner scrubbers to stay within the proposed range for that source, as provided in paragraph (g)(1) of this section.

(iii) If an excursion from an approved range occurs, Astaris-Idaho shall immediately upon discovery, but no later than within three hours of discovery, initiate corrective action to bring calciner scrubber operation back within the approved range.

(iv) The owner or operator of the Astaris-Idaho facility shall complete the corrective action as expeditiously as possible.

(5) The owner or operator of the Astaris-Idaho facility shall install,

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calibrate, maintain, and operate in accordance with the manufacturer's specifications, a device to continuously measure and continuously record the pressure drop across the scrubber for each of the following sources identified in Column II of Table 1 to this section: furnaces #1, #2, #3 and #4—Medusa-Andersen scrubbers (Table 1 of this section, sources 18d, 18e, 18f and 18g), phos dock Andersen scrubber (Table 1 of this section, source 21a), and excess CO burner—Andersen scrubber (Table 1 of this section, source 26b).

(i) The device for furnaces #1, #2, #3 and #4—Medusa-Andersen scrubbers (Table 1 of this section, sources 18d, 18e, 18f and 18g) and the phos dock Andersen scrubber (Table 1 of this section, source 21a) shall be installed and fully operational no later than 210 days after August 23, 2000. The device for the excess CO burner (Table 1 of this section, source 26b) shall be installed and fully operational no later than January 1, 2001.

(ii) Upon EPA approval of the acceptable range of scrubber pressure drop for each source, as provided in paragraph (g)(1) of this section, the owner or operator of the Astaris-Idaho facility shall maintain and operate the source to stay within the approved range. Until EPA approval of the acceptable ranges of scrubber pressure drop for each source, the owner or operator of the Astaris-Idaho facility shall maintain and operate the source to stay within the proposed range for that source, as provided in paragraph (g)(1) of this section.

(iii) If an excursion from an approved range occurs, the owner or operator of the Astaris-Idaho facility shall immediately upon discovery, but no later than within three hours of discovery, initiate corrective action to bring source operation back within the approved range.

(iv) The owner or operator of the Astaris-Idaho facility shall complete the corrective action as expeditiously as possible.

(6) The owner or operator of the Astaris-Idaho facility shall develop and implement a written plan for monitoring the scrubber water quality (through a parameter(s) such as total dissolved solids, total suspended solids,

conductivity, specific gravity, etc) on a daily basis for the following sources: calciner scrubbers (Table 1 of this section, source 9a) and furnace #1, #2, #3 and #4—Medusa-Andersen scrubbers (Table 1 of this section, sources 18d, 18e, 18f and 18g).

(i) The plan for furnaces #1, #2, #3 and #4—Medusa-Andersen scrubbers (Table 1 of this section, sources 18d, 18e, 18f and 18g) shall be submitted to the Regional Administrator within 180 days after September 22, 2000. The plan for the calciner scrubbers (Table 1 of this section, source 9a) shall be submitted to the Regional Administrator no later than December 1, 2000.

(ii) Upon EPA approval of the acceptable parameter range for water quality for each source, as provided in paragraph (g)(1) of this section, the owner or operator of the Astaris-Idaho facility shall maintain and operate the source to stay within the approved range. Until EPA approval of the acceptable range of water quality for each source, the owner or operator of the Astaris-Idaho facility shall maintain and operate the source to stay within the proposed range for that source, as provided in paragraph (g)(1) of this section.

(iii) If an excursion from an approved range occurs, the owner or operator of the Astaris-Idaho facility shall immediately upon discovery, but no later than within three hours of discovery, initiate corrective action to bring source operation back within the approved range.

(iv) The owner or operator of the Astaris-Idaho facility shall complete the corrective action as expeditiously as possible.

(7) For each of the pressure relief vents on the furnaces (Table 1 of this section, source 24), Astaris-Idaho shall install, calibrate, maintain, and operate in accordance with the manufacturer's specifications, devices to continuously measure and continuously record the temperature and pressure of gases in the relief vent downstream of the pressure relief valve and the water level of the pressure relief valve.

(i) The devices shall be installed and fully operational no later than 90 days after August 23, 2000.

(ii) A “pressure release” is defined as an excursion of the temperature, pressure, or water level outside of the parameters approved in accordance with paragraph (g)(1) of this section. Until EPA approval of the acceptable range of parameters for the pressure release vents, a “pressure release” is defined as an excursion of the temperature, pressure, or water level outside of the parameters proposed by the owner or operator of the Astaris-Idaho facility for the pressure relief vents, as provided in paragraph (g)(1) of this section.

(iii) The release point on each pressure relief vent shall be maintained at no less than 18 inches of water.

(iv) When a pressure release through a pressure relief vent is detected, the owner or operator of the Astaris-Idaho facility shall, within 30 minutes of the beginning of the pressure release, inspect the pressure relief valve to ensure that it has properly sealed and verify that at least 18 inches of water seal pressure is maintained.

(8) The owner or operator of the Astaris-Idaho facility shall develop and implement a written O&M plan covering all sources of PM-10 at the Astaris-Idaho facility, including without limitation, each source identified in Column II of Table 1 of this section and uncaptured fugitive and general fugitive emissions of PM-10 from each source.

(i) The purpose of the O&M plan is to ensure each source at the Astaris-Idaho facility will be operated and maintained consistent with good air pollution control practices and procedures for maximizing control efficiency and minimizing emissions at all times, including periods of startup, shutdown, emergency, and malfunction, and to establish procedures for assuring continuous compliance with the emission limitations, work practice requirements, and other requirements of this section.

(ii) The O&M plan shall be submitted to the Regional Administrator within 60 days of September 22, 2000 and shall cover all sources and requirements for which compliance is required 90 days after August 23, 2000.

(A) A revision to the O&M plan covering each source or requirement with a compliance date of more than 60 days

after September 22, 2000 shall be submitted at least 60 days before the source is required to comply with the requirement.

(B) The owner or operator of the Astaris-Idaho facility shall review and, as appropriate, update the O&M plan at least annually.

(C) The Regional Administrator may require the owner or operator of the Astaris-Idaho facility to modify the plan if, at any time, the Regional Administrator determines that the O&M plan does not:

(1) Adequately ensure that each source at the Astaris-Idaho facility will be operated and maintained consistent with good air pollution control practices and procedures for maximizing control efficiency and minimizing emissions at all times;

(2) Contain adequate procedures for assuring continuous compliance with the emission limitations, work practice requirements, and other requirements of this section;

(3) Adequately address the topics identified in this paragraph (e)(8); or

(4) Include sufficient mechanisms for ensuring that the O&M plan is being implemented.

(iii) The O&M plan shall address at least the following topics:

(A) Procedures for minimizing fugitive PM-10 emissions from material handling, storage piles, roads, staging areas, parking lots, mechanical processes, and other processes, including but not limited to:

(1) A visual inspection of all material handling, storage piles, roads, staging areas, parking lots, mechanical processes, and other processes at least once each week at a regularly scheduled time. The O&M plan shall include a list of equipment, operations, and storage piles, and what to look for at each source during this regularly scheduled inspection.

(2) A requirement to document the time, date, and results of each visual inspection, including any problems identified and any corrective actions taken.

(3) A requirement to take corrective action as soon as possible but no later than within 48 hours of identification of operations or maintenance problems identified during the visual inspection

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(unless a shorter time frame is specified by this rule or is warranted by the nature of the problem).

(4) Procedures for the application of dust suppressants to and the sweeping of material from storage piles, roads, staging areas, parking lots, or any open area as appropriate to maintain compliance with applicable emission limitations or work practice requirements. Such procedures shall include the specification of dust suppressants, the application rate, and application frequency, and the frequency of sweeping. Such procedures shall also include the procedures for application of latex to the main shale pile (source 2) and the emergency/contingency raw ore shale pile (source 3) after each reforming of the pile or portion of the pile.

(B) Specifications for parts or elements of control or process equipment needing replacement after some set interval prior to breakdown or malfunction.

(C) Process conditions that indicate need for repair, maintenance or cleaning of control or process equipment, such as the need to open furnace access ports or holes.

(D) Procedures for the visual inspection of all baghouses, scrubbers, and other control equipment of at least once each week at a regularly scheduled time.

(E) Procedures for the regular maintenance of control equipment, including without limitation, procedures for the rapid identification and replacement of broken or ripped bags for all sources controlled by a baghouse, bag dimensions, bag fabric, air-to-cloth ratio, bag cleaning methods, cleaning type, bag spacing, compartment design, bag replacement schedule, and typical exhaust gas volume.

(F) Procedures that meet or exceed the manufacturer's recommendations for the inspection, maintenance, operation, and calibration of each monitoring device required by this part.

(G) Procedures for the rapid identification and repair of equipment or processes causing a malfunction or emergency and for reducing or minimizing the duration of and emissions resulting from any malfunction or emergency.

(H) Procedures for the training of staff in procedures listed in paragraph (e)(8)(i) of this section.

(I) For each source identified in Column II of Table 2 to this section, additional control measures or other actions to be taken if the emissions from the source exceed the opacity action level identified in Column III of Table 2 to this section.

(9) For each source identified in Column II of Table 1 to this section, the owner or operator of the Astaris-Idaho facility shall conduct a visual observation of each source at least once during each calendar week.

(i) If visible emissions are observed for any period of time during the observation period, the owner or operator of the Astaris-Idaho facility shall immediately, but no later than within 24 hours of discovery, take corrective action to minimize visible emissions from the source. Such actions shall include, but not be limited to, those actions identified in the O&M plan for the source. Immediately upon completion of the corrective action, a certified observer shall conduct a visible emissions observation of the source using the reference test method for the opacity limit with an observation duration of at least six minutes. If opacity exceeds the opacity action level, the owner or operator of the Astaris-Idaho facility shall take prompt corrective action. This process shall be repeated until opacity returns to below the opacity action level.

(ii) In lieu of the periodic visual observation under this paragraph (e)(9), the owner or operator of the Astaris-Idaho facility may conduct a visible emission observation of any source subject to the requirements of this paragraph (e)(9) using the reference test method for the opacity limit, in which case corrective action must be taken only if opacity exceeds the opacity action level.

(iii) Should, for good cause, the visible emissions reading not be conducted on schedule, the owner or operator of the Astaris-Idaho facility shall record the reason observations were not conducted. Visible emissions observations shall be conducted immediately upon the return of conditions suitable for visible emissions observations.

(iv) If, after conducting weekly visible emissions observations for a given source for more than one year and detecting no visible emissions from that source for 52 consecutive weeks, the frequency of observations may be reduced to monthly. The frequency of observations for such source shall revert to weekly if visible emissions are detected from that source during any monthly observation or at any other time.

(v) With respect to slag handling (Table 1 of this section, source 8a):

(A) Visible emission observations shall be made of the slag tapping area as viewed from the exterior of the furnace building and in the general area of the old slag pits;

(B) For the first three months after the effective date of the opacity limit, the owner or operator of the Astaris-Idaho facility shall conduct a visual observation of this source three days each week and shall submit the results of such observations at the end of the three month time frame. Thereafter, such observations shall be conducted weekly or as otherwise provided in this paragraph (e)(9).

(10) Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero span adjustments), the owner or operator of the Astaris-Idaho facility shall conduct all monitoring with the monitoring devices required by paragraphs (e)(2), (e)(3), (e)(4), (e)(5), (e)(6), and (e)(7) of this section in continuous operation at all times that the monitored process is in operation. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of this section, including data averages and calculations, or fulfilling a minimum data availability requirement. The owner or operator of the Astaris-Idaho facility shall use data collected during all other periods in assessing the operation of the control device and associated control system.

(11) The minimum data availability requirement for monitoring data pursuant to paragraphs (e)(2), (e)(3), (e)(4), (e)(5), (e)(6), and (e)(7) of this section is

90% on a monthly average basis. Data availability is determined by dividing the time (or number of data points) representing valid data by the time (or number of data points) that the monitored process is in operation.

(12) Nothing in this paragraph (e) shall preclude EPA from requiring any other testing or monitoring pursuant to section 114 of the Clean Air Act.

(f) *Record keeping requirements.* (1) The owner or operator of the Astaris-Idaho facility shall keep records of all monitoring required by this section that include, at a minimum, the following information:

(i) The date, place as defined in this section, and time of the sampling or measurement.

(ii) The dates the analyses were performed.

(iii) The company or entity that performed the analyses.

(iv) The analytical techniques or methods used.

(v) The results of the analyses.

(vi) The operating conditions existing at the time of the sampling or measurement.

(2)(i) The owner or operator of the Astaris-Idaho facility shall keep records of all inspections and all visible emissions observations required by this section or conducted pursuant to the O&M plan, which records shall include the following:

(A) The date, place, and time of the inspection or observation.

(B) The name and title of the person conducting the inspection or observation.

(C) In the case of a visible emission observation, the test method (Method 9 or visual observation), the relevant or specified meteorological conditions, and the results of the observation, including raw data and calculations. In the case of visible emission observations of slag handling (Table 1 of this section, source 8a), the owner or operator of the Astaris-Idaho facility shall also document whether visible emissions emanate from fuming of hot slag from pots or other points in the old slag pit area.

(D) For any corrective action required by this section or the O&M plan or taken in response to a problem identified during an inspection or visible

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emissions observation required by this section or the O&M plan, the time and date corrective action was initiated and completed and the nature of corrective action taken.

(E) The reason for any monitoring not conducted on schedule.

(ii) With respect to control devices, the requirement of paragraph (f)(2)(i) of this section is satisfied by meeting the requirements of paragraph (f)(11) of this section.

(3) The owner or operator of the Astaris-Idaho facility shall continuously record the parameters specified in paragraphs (e)(2), (e)(3), (e)(4), (e)(5), and (e)(7) of this section, and shall record the parameters specified in paragraphs (e)(6) of this section on the frequency specified in the monitoring plan required under paragraph (e)(6) of this section.

(4) The owner or operator of the Astaris-Idaho facility shall keep records of all excursions from ranges approved under paragraph (e)(3) or (g)(1) of this section, including without limitation, the measured excursion, time and date of the excursion, duration of the excursion, time and date corrective action was initiated and completed, and nature of corrective action taken.

(5) The owner or operator of the Astaris-Idaho facility shall keep records of:

(i) The time, date, and duration of each pressure release from a furnace pressure relief vent (Table 1 of this section, source 24), the method of detecting the release, the results of the inspection required by paragraph (e)(7) of this section, and any actions taken to ensure resealing, including the time and date of such actions; and

(ii) The time, date, and duration of the steaming and draining of the pressure relief vent drop tank.

(6) The owner or operator of the Astaris-Idaho facility shall keep records of the time, date, and duration of each flaring of the emergency CO flares (Table 1 of this section, source 25) due to an emergency, the method of detecting the emergency, and all corrective action taken in response to the emergency.

(7) Until January 1, 2001, the owner or operator of the Astaris-Idaho facility

shall keep records of the date and start/stop time of each mini-flush; the phosphy water flow rate and outlet temperature immediately preceding the start time; whether the operating parameters for conducting the mini-flush set forth in paragraph (c)(5)(ii) of this section were met; and, if the parameters were not met, whether the failure to comply with the parameters was attributable to a malfunction or emergency.

(8) The owner or operator of the Astaris-Idaho facility shall keep records of the application of dust suppressants to all storage piles, roads, staging areas, parking lots, and any other area, including the purchase of dust suppressants, the identification of the surface covered, type of dust suppressant used, the application rate (gallons per square foot), and date of application.

(9) The owner or operator of the Astaris-Idaho facility shall keep records of the frequency of sweeping of all roads, staging areas, parking lots, and any other area, including the identification of the surface swept and date and duration of sweeping.

(10) The owner or operator of the Astaris-Idaho facility shall keep the following records with respect to the main shale pile (Table 1 of this section, source 2) and emergency/contingency raw ore shale pile (Table 1 of this section, source 3):

(i) The date and time of each reforming of the pile or portion of the pile.

(ii) The date, time, and quantity of latex applied.

(11) The owner or operator of the Astaris-Idaho facility shall keep a log for each control device of all inspections of and maintenance on the control device, including without limitation the following information:

(i) The date, place, and time of the inspection or maintenance activity.

(ii) The name and title of the person conducting the inspection or maintenance activity.

(iii) The condition of the control device at the time.

(iv) For any corrective action required by this section or the O&M plan or taken in response to a problem identified during an inspection required by this section or the O&M plan, the time

and date corrective action was initiated and completed, and the nature of corrective action taken.

(v) A description of, reason for, and the date of all maintenance activities, including without limitation any bag replacements.

(vi) The reason any monitoring was not conducted on schedule, including a description of any monitoring malfunction, and the reason any required data was not collected.

(12) The owner or operator of the Astaris-Idaho facility shall keep the following records:

(i) The Method 9 initial certification and recertification for all individuals conducting visual emissions observations using Method 9 as required by this section.

(ii) Evidence that all individuals conducting visual observations as required by this section meet the training guidelines described in section 1 of Method 22, 40 CFR part 60, appendix A.

(13) The owner or operator of the Astaris-Idaho facility shall keep records on the type and quantity of fuel used in the boilers (Table 1 of this section, source 23), including without limitation the date of any change in the type of fuel used.

(14) The owner or operator of the Astaris-Idaho facility shall keep records of the results of the daily monitoring of the water quality of the scrubber water in the calciner scrubbers (Table 1 of this section, source 9a) and the Medusa-Andersen furnace scrubbers (Table 1 of this section, sources 18d, 18e, 18f, and 18g) as specified in the O&M plan.

(15) The owner or operator of the Astaris-Idaho facility shall keep records of the time, date, and duration of each damper vent opening for the furnace building east and west baghouses (Table 1 of this section, sources 18a and 18b), the reason for the damper vent opening, and all corrective action taken in response to the damper vent opening.

(16) The owner or operator of the Astaris-Idaho facility shall keep a copy of all reports required to be submitted to EPA under paragraph (g) of this section.

(17) All records required to be maintained by this section and records of all

required monitoring data and support information shall be maintained on site at the Astaris-Idaho facility in a readily accessible location for a period of at least five years from the date of the monitoring sample, measurement, report, or record.

(i) Such records shall be made available to EPA on request.

(ii) Support information includes all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation.

(g) *Reporting requirements.* (1) The owner or operator of the Astaris-Idaho facility shall submit to EPA, for each of the operating parameters required to be continuously monitored pursuant to paragraphs (e)(2), (e)(4), (e)(5), (e)(6), and (e)(7) of this section, a proposed range of operation, including a proposed averaging period, and documentation demonstrating that operating the source within the proposed range will assure compliance with applicable emission limitations and work practice requirements of this section.

(i) The proposed parameter ranges shall be submitted within 210 days of August 23, 2000, for all sources except as follows:

(A) A proposed parameter range for the pressure relief vents (Table 1 of this section, source 24) shall be submitted within 90 days of August 23, 2000.

(B) Proposed parameter ranges for the calciner scrubbers (Table 1 of this section, source 9a) and the excess CO burner (Table 1 of this section, source 26b) shall be submitted no later than the date by which the emission limitations become applicable to those sources under this section.

(ii) A parameter range for each source shall be approved by EPA through the issuance of a title V operating permit to the Astaris-Idaho facility, or as a modification thereto. Until EPA approval of the acceptable range for a parameter for a source, the owner or operator of the Astaris-Idaho facility shall maintain and operate the source to stay within the proposed range for that source.

(iii) If EPA determines at any time that the proposed or approved range does not adequately assure compliance

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with applicable emission limitations and work practice requirements, EPA may request additional information, request that revised parameter ranges and supporting documentation be submitted to EPA for approval, or establish alternative approved parameter ranges through the issuance of a title V operating permit to the Astaris-Idaho facility, or as a modification thereto.

(iv) This requirement to submit proposed parameter ranges is in addition to and separate from any requirement to develop parameter ranges under 40 CFR part 64 (Compliance Assurance Monitoring rule). However, monitoring for any pollutant specific source that meets the design criteria of 40 CFR 64.3 and the submittal requirements of 40 CFR 64.4 may be submitted to meet the requirements of this paragraph (g)(1).

(2) The owner or operator of Astaris-Idaho shall submit to EPA a bi-monthly report covering the preceding two calendar months (e.g., January-February, March-April). Such report shall be submitted 15 days after the end of each two month period, with the last such report covering the period of November and December 2000. The report shall include the following:

(i) The date and start/stop time of each mini-flush; the phosphy water flow rate and outlet temperature immediately preceding the start time; and a "Yes/No" column indicating whether the operating parameters for conducting the mini-flush set forth in paragraph (c)(5)(ii) of this section were met.

(ii) For any "No" entry, an indication of whether the failure to comply with the parameters was attributable to a malfunction and, if so, the date and time of notification to EPA of the malfunction and a copy of the contemporaneous record described in paragraph (c)(5)(ii) of this section.

(iii) For each month, the total mini-flush time in minutes, the number of operating days for the secondary condenser, and the average minutes per operating day.

(3) The owner or operator of the Astaris-Idaho facility shall submit to EPA a semi-annual report of all monitoring required by this section covering the six month period from Janu-

ary 1 through June 30 and July 1 through December 31 of each year. Such report shall be submitted 30 days after the end of such six month period.

(i) The semiannual report shall:

(A) Identify each time period (including the date, time, and duration) during which a visible emissions observation or PM-10 emissions measurement exceeded the applicable emission limitation and state what actions were taken to address the exceedence. If no action was taken, the report shall state the reason that no action was taken.

(B) Identify each time period (including the date, time, and duration) during which there was an excursion of a monitored parameter from the approved range and state what actions were taken to address the excursion. If no action was taken, the report shall state the reason that no action was taken.

(C) Identify each time period (including the date, time, and duration) during which there was an excursion above the opacity action level and state what actions were taken to address the excursion. If no action was taken, the report shall state the reason that no action was taken.

(D) Identify each time period (including date, time and duration) of each flaring of the emergency CO flares (Table 1 of this section, source 25) due to an emergency and state what actions were taken to address the emergency. If no action was taken, the report shall state the reason that no action was taken.

(E) Identify each time period (including date, time and duration) of each pressure release from a pressure relief vent (Table 1 of this section, source 24) and state what actions were taken to address the pressure release. If no action was taken, the report shall state the reason that no action was taken.

(F) Include a summary of all monitoring required under this section.

(G) Include a copy of the source test report for each performance test conducted in accordance with paragraph (e)(1) of this section.

(H) Describe the status of compliance with this section for the period covered by the semi-annual report, the methods or other means used for determining the compliance status, and whether

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such methods or means provide continuous or intermittent data.

(1) Such methods or other means shall include, at a minimum, the monitoring, record keeping, and reporting required by this section.

(2) If necessary, the owner or operator of Astaris-Idaho shall also identify any other material information that must be included in the report to comply with section 113(c)(2) of the Clean Air Act, which prohibits making a knowing false certification or omitting material information.

(3) The determination of compliance shall also take into account any excursions from the required parameter ranges reported pursuant to paragraph (g)(3)(i)(B) of this section.

(ii) Each semi-annual report submitted pursuant to this paragraph shall contain certification by a responsible official, as defined in 40 CFR 71.2, of truth, accuracy and completeness. Such certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the documents are true, accurate, and complete.

(4) The owner or operator of the Astaris-Idaho facility shall notify EPA by telephone or facsimile within 48 hours of the beginning of each flaring of the emergency CO flares (Table 1 of this section, source 25) due to an emergency.

(5)(i) For emissions that continue for more than two hours in excess of the applicable emissions limitation, the owner or operator of the Astaris-Idaho facility shall notify EPA by telephone or facsimile within 48 hours. A written report containing the following information shall be submitted to EPA within ten working days of the occurrence of the excess emissions:

(A) The identity of the stack and/or other source where excess emissions occurred.

(B) The magnitude of the excess emissions expressed in the units of the applicable emissions limitation and the operating data and calculations used in determining the magnitude of the excess emissions.

(C) The time and duration or expected duration of the excess emissions.

(D) The identity of the equipment causing the excess emissions.

(E) The nature and probable cause of such excess emissions.

(F) Any corrective action or preventative measures taken.

(G) The steps taken or being taken to limit excess emissions.

(ii) Compliance with this paragraph is required even in cases where the owner or operator of the Astaris-Idaho facility does not seek to establish an affirmative defense of startup, shutdown, malfunction, or emergency under paragraphs (c)(8) or (c)(9) of this section.

(6) The owner or operator of Astaris-Idaho shall notify EPA if it uses any fuel other than natural gas in the boilers (Table 1 of this section, source 23) within 24 hours of commencing use of such other fuel.

(7) All reports and notices submitted under this section shall be submitted to EPA at the addresses set forth below: U.S. Environmental Protection Agency, Region 10, State and Tribal Programs Unit, Re: Astaris-Idaho FIP, Office of Air Quality, OAQ 107, 1200 Sixth Avenue, Seattle, Washington 98101, (206) 553-1189, Fax: 206-553-0404.

(8) The owner or operator of the Astaris-Idaho facility shall submit a copy of each report, notice, or other document submitted to EPA under this section contemporaneously to the Shoshone-Bannock Tribes at the following address: Shoshone-Bannock Tribes, Air Quality Program, Land Use Department, P.O. Box 306, Fort Hall, Idaho, 83203, telephone (208) 478-3853; fax (208) 237-9736. The owner or operator of the Astaris-Idaho facility shall also provide contemporaneously to the Tribes notice by telephone in the event notice by telephone is provided to EPA under this section.

(h) *Title V Permit.* (1) Additional monitoring, work practice, record keeping, and reporting requirements may be included in the title V permit for the Astaris-Idaho facility to assure compliance with the requirements of this section.

(2)(i) A requirement of paragraph (e), (f), or (g) of this section may be revised through issuance or renewal of a title V operating permit by EPA to the Astaris-Idaho facility under 40 CFR

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part 71 or through a significant permit modification thereto, provided that:

(A) Any alternative monitoring, record keeping, or reporting requirements that revise requirements of paragraphs (e), (f), or (g) of this section:

(1) Are sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the requirements of paragraph (c) of this section; and

(2) Provide no less compliance assurance than the requirements of paragraphs (e), (f), or (g) of this section that the alternative requirements would replace.

(B) In the event the alternative monitoring, record keeping, or reporting requirements are requested by the owner or operator of the Astaris-Idaho facility, Astaris-Idaho's application for its title V operating permit or significant permit modification must include:

(1) The proposed alternative monitoring, record keeping, or reporting permit terms or conditions;

(2) The specific provisions of paragraphs (e), (f), or (g) of this section the owner or operator of the Astaris-Idaho facility is seeking to revise; and

(3) The supporting documentation to establish that the alternative permit

terms or conditions meet the requirements of paragraph (h)(2)(i)(A) of this section.

(C) The draft and final title V operating permit or significant permit modification identifies the specific provisions of paragraphs (e), (f), or (g) of this section being revised;

(D) In the event a revision to paragraphs (e), (f), or (g) of this section is accomplished through a significant modification to Astaris-Idaho's title V operating permit, it is accomplished using the significant permit modification procedures of 40 CFR part 71; and

(i) Upon issuance or renewal of Astaris-Idaho's title V permit or a significant permit modification thereto that revises a requirement of paragraphs (e), (f), or (g) of this section, the revision shall remain in effect as a requirement of this section notwithstanding expiration, termination, or revocation of Astaris-Idaho's title V operating permit.

(i) *Compliance schedule.* Except as otherwise provided in this section, the owner or operator of the Astaris-Idaho facility shall comply with the requirements of this section within 90 days of August 23, 2000.

TABLE 1 TO §49.10711

I Source No.	II Source description	III Emission limitations and work practice requirements	IV Reference test method
1	Railcar unloading of shale (ore) into underground hopper.	Opacity shall not exceed 10% over a 6 minute average.	Method 9.
2	Main shale pile (portion located on Fort Hall Indian Reservation).	Opacity shall not exceed 10% over a 6 minute average.	
3	Emergency/contingency raw ore shale pile.	Latex shall be applied after each reforming of pile or portion of pile. Opacity shall not exceed 10% over a 6 minute average.	Method 9.
4	Stacker and reclaimer	Latex shall be applied after each reforming of pile or portion of pile. Opacity shall not exceed 10% over a 6 minute average.	Method 9.
5a	East shale baghouse	a. Emissions shall not exceed 0.10 lb. PM-10/hr (excluding condensable PM-10). Opacity shall not exceed 10% over a 6 minute average.	a. Methods 201/201A. Method 9.
5b	East shale baghouse building	b. Opacity shall not exceed 10% over a 6 minute average from any portion of the building.	b. Method 9.
6a	Middle shale baghouse	a. Emissions shall not exceed 0.50 lb. PM-10/hr (excluding condensable PM-10). Opacity shall not exceed 10% over a 6 minute average.	a. Methods 201/201A. Method 9.
6b	Middle shale baghouse building ..	b. Opacity shall not exceed 10% over a 6 minute average from any portion of the building.	b. Method 9.

TABLE 1 TO § 49.10711—Continued

I Source No.	II Source description	III Emission limitations and work practice requirements	IV Reference test method
6c	Middle shale baghouse outside capture hood—fugitive emissions.	c. Opacity shall not exceed 10% over a 6 minute average.	c. Method 9.
7a	West shale baghouse	a. Emissions shall not exceed 0.50 lb. PM-10/hr (excluding condensible PM-10). Opacity shall not exceed 10% over a 6 minute average.	a. Methods 201/201A. Method 9.
7b	West shale baghouse building	b. Opacity shall not exceed 10% over a 6 minute average from any portion of the building.	b. Method 9.
7c	West shale baghouse outside capture hood—fugitive emissions.	c. Opacity shall not exceed 10% over a 6 minute average.	c. Method 9.
8a	a. Slag handling: slag pit area and pot rooms.	a. Until November 1, 2000, emissions from the slag pit area and the pot rooms shall be exempt from opacity limitations. Effective November 1, 2000, opacity of emissions in the slag pit area and from pot rooms shall not exceed 10% over a 6 minute average. <i>Exemption:</i> Fuming of molten slag in transport pots during transport are exempt provided the pots remain in the pot room for at least 3 minutes after the flow of molten slag to the pots has ceased. <i>See also 40 CFR 49.10711(c)(4)</i>	Method 9.
8b	b. Recycle material pile	b. Opacity shall not exceed 10% over a 6 minute average.	b. Method 9.
8c	c. Dump to slag pile	c. Fuming of molten slag during dump to slag pile shall be exempt from opacity limitations.	
9a	Calciner scrubbers	Effective December 1, 2000: The calciner scrubbing chain (air pollution control equipment) shall achieve an overall control efficiency ¹ of at least 90% for PM-10 (including condensible PM-10) when inlet loadings equal or exceed 0.150 grains per dry standard cubic foot.	Method 5 (all particulate collected shall be counted as PM-10) and Method 202 at the scrubber outlet. Method 201A and Method 202 at the inlet to the scrubber systems.
		The arithmetic average of the emission concentration from the four stacks associated with each calciner shall not exceed 0.0080 grains per dry standard cubic foot PM-10 (excluding condensible PM-10) ² .	Method 5 (all particulate collected shall be counted as PM-10).
		The arithmetic average of the emission concentration from the four stacks associated with each calciner shall not exceed 0.0180 grains per dry standard cubic foot PM-10 (including condensible PM-10) ² .	Method 5 (all particulate collected shall be counted as PM-10) and Method 202 at the scrubber outlet.
	Calciner scrubbers	Total gas flow rate through any one outlet stack shall not exceed 40,800 dry standard cubic feet per minute.	Method 2.
		The calciner scrubbers shall be exempt from opacity limitations.	
9b	Calciner traveling grate—fugitive emissions.	b. Opacity shall not exceed 10% over a 6 minute average.	Method 9.
10	Calciner cooler vents	Emissions from any one calciner cooler vent shall not exceed 4.40 lb. PM-10/hr (excluding condensible PM-10). Opacity shall not exceed 10% over a 6 minute average.	Methods 201/201A. Method 9.
11	Nodule pile	Opacity shall not exceed 20% over a 6 minute average.	Method 9.
12a	North nodule discharge baghouse.	a. Emissions shall not exceed 0.20 lb. PM-10/hr (excluding condensible PM-10).	a. Methods 201/201A.
		Opacity shall not exceed 10% over a 6 minute average.	Method 9.
12b	South nodule discharge baghouse.	b. Emissions shall not exceed 0.20 lb. PM-10/hr (excluding condensible PM-10).	b. Methods 201/201A.
		Opacity shall not exceed 10% over a 6 minute average.	Method 9.

TABLE 1 TO § 49.10711—Continued

I Source No.	II Source description	III Emission limitations and work practice requirements	IV Reference test method
12c	North and south nodule discharge baghouse outside capture hood—fugitive emissions.	c. Opacity shall not exceed 10% over a 6 minute average.	c. Method 9.
13	Nodule reclaim baghouse	a. Emissions shall not exceed 0.90 lb. PM–10/hr (excluding condensible PM–10). Opacity shall not exceed 10% over a 6 minute average.	Methods 201/201A. Method 9.
14	Screened shale fines pile adjacent to the West shale building. Proportioning building	Opacity shall not exceed 20% over a 6 minute average.	Method 9.
15a	a. East nodule baghouse	a. Emissions shall not exceed 0.60 lb. PM–10/hr (excluding condensible PM–10). Opacity shall not exceed 10% over a 6 minute average.	a. Methods 201/201A. Method 9.
15b	b. West nodule baghouse	b. Emissions shall not exceed 0.30 lb. PM–10/hr (excluding condensible PM–10). Opacity shall not exceed 10% over a 6 minute average.	b Methods 201/201A . Method 9
15c	c. Proportioning building—fugitive emissions.	c. Opacity shall not exceed 10% over a 6 minute average from any portion of the building.	c. Method 9.
16a	Nodule stockpile baghouse	a. Emissions shall not exceed 0.30 lb. PM–10/hr (excluding condensible PM–10). Opacity shall not exceed 10% over a 6 minute average.	a. Methods 201/201A. Method 9.
16b	Nodule stockpile baghouse outside capture hood—fugitive emissions.	b. Opacity shall not exceed 10% over a 6 minute average.	b. Method 9.
17a	Dust silo baghouse	a. Emissions shall not exceed 0.150 lb. PM–10/hr(excluding condensible PM–10). Opacity shall not exceed 10% over a 6 minute average.	a. Methods 201/201A. Method 9.
17b	Dust silo fugitive emissions and pneumatic dust handling system.	b. Opacity shall not exceed 10% over a 6 minute average from any portion of the dust silo or pneumatic dust handling system.	b. Method 9.
18a	Furnace building a. East baghouse	a. Emissions shall not exceed 0.80 lb. PM–10/hr (excluding condensible PM–10). Opacity shall not exceed 10% over a 6 minute average.	a. Methods 201/201A. Method 9.
18b	b. West baghouse	b. Emissions shall not exceed 0.80 lb. PM–10/hr (excluding condensible PM–10). Opacity shall not exceed 10% over a 6 minute average.	b. Methods 201/201A. Method 9.
18c	c. Furnace building; any emission point except 18a, 18b, 18d, 18e, 18f, or 18g.	c. Until April 1, 2002, opacity shall not exceed 20% over a 6 minute average. Effective April 1, 2002, opacity shall not exceed 10% over a 6 minute average.	c. Method 9. Method 9.
18d	d. Furnace #1 Medusa-Andersen	d, e, f, g: Emissions from any one Medusa-Andersen stack shall not exceed 2.0 lb/hr (excluding condensible PM–10).	d, e, f, g: Methods 201/201A.
18e	e. Furnace #2 Medusa-Andersen		
18f	f. Furnace #3 Medusa-Andersen	Opacity from any one Medusa-Andersen shall not exceed 10% over a 6 minute average.	Method 9.
18g	g. Furnace #4 Medusa-Anderson		
19	Briquetting building	Opacity shall not exceed 10% over a 6 minute average from any portion of the building.	Method 9.
20a	a. Coke handling baghouse	a. Emissions shall not exceed 1.70 lb. PM–10/hr (excluding condensible PM–10). Opacity shall not exceed 10% over a 6 minute average.	a. Methods 201/201A. Method 9.
20b	b. Coke unloading building	b. Opacity shall not exceed 10% over a 6 minute average from any portion of the coke unloading building.	b. Method 9.
21a	a. Phosphorous loading dock (phos dock), Andersen Scrubber.	Emissions shall not exceed 0.0040 grains per dry standard cubic foot PM–10 (excluding condensible PM–10). Flow rate (throughput to the control device) shall not exceed manufacturer's design specification.	a. Methods 201/201A. Method 2.

TABLE 1 TO § 49.10711—Continued

I Source No.	II Source description	III Emission limitations and work practice requirements	IV Reference test method
21b	b. Phosphorous loading dock—fugitive emissions.	Opacity shall not exceed 10% over a 6 minute average.	Method 9.
22	All roads	b. Opacity shall not exceed 10% over a 6 minute average.	b. Method 9.
23	Boilers	Opacity shall not exceed 20% over a 6 minute average.	Method 9.
24	Boilers	Emissions from any one boiler shall not exceed 0.090 lb. PM–10/hr (excluding condensible PM–10).	Methods 201/201A.
24	Pressure relief vents	Opacity from any one boiler shall not exceed 10% over a 6 minute average. Opacity shall not exceed 10% over a 6 minute average except: (i) during a pressure release, as defined in 40 CFR 49.10711(e)(7)(ii), which shall be exempt from opacity limits; and. (ii) during steaming and draining of the pressure relief vent drop tank, which shall occur no more than twice each day, opacity shall not exceed 20% over a 6 minute average. Pressure release point shall be maintained at 18 inches of water pressure at all times.	Method 9. Inspection of pressure relief vent and monitoring device
25	Furnace CO emergency flares	Except during an emergency flaring caused by an emergency as defined in 40 CFR 49.10711(b), opacity shall not exceed 10% over a 6 minute average. Emissions during an emergency flaring caused by an emergency are exempt from opacity limitations.	Method 9.
26a	a. Existing elevated secondary condenser flare and ground flare.	a. See 40 CFR 49.10711(c)(5).	
26b	b. Excess CO burner (to be built to replace the existing elevated secondary condenser flare and ground flare).	b. Effective January 1, 2001: i. The control efficiency ¹ of the air pollution control equipment shall achieve an overall control efficiency of at least 95% for PM–10 (including condensible PM–10) when inlet loadings equal or exceed 0.50 grains per dry standard cubic foot. ii. Emissions from the excess CO burner shall not exceed 24.0 lbs PM–10/hr (including condensible PM–10). Effective January 1, 2001, opacity shall not exceed 10% over a 6 minute average.	i. Methods 201/201A and Method 202 for the inlet (sampling locations to be determined). Method 201/201A (Method 5 if gas stream contains condensed water vapor) and Method 202 for the outlet. ii. Method 201/201A (Method 5 if gas stream contains condensed water vapor) and Method 202 for the outlet. Method 9.

¹The control efficiency (as a percentage) of the air pollution control equipment shall be determined by the following equation:

$$CE (\%) = 100 \{ 1 - \frac{[Fho+Bho]}{[Fhi+Bhi]} \}$$
 Where CE is the control efficiency
 Fhi is the front half emissions for the inlet
 Bhi is the back half emissions for the inlet
 Fho is the sum of the front half emissions from each stack for the outlet
 Bho is the sum of the back half emissions from each stack for the outlet
 Inlet and all outlet stacks to be sampled simultaneously for required testing.
 The individual source tests for the inlet and outlet to the emission control system shall be conducted simultaneously or within 3 hours of each other with the same operating conditions.
²The individual source tests for the four stacks associated with each calciner shall be conducted simultaneously or within 3 hours of each other with the same operating conditions.

TABLE 2 TO § 49.10711

I Source No.	II Source description	III V Reference test method
1	Railcar unloading of shale (ore) into underground hopper.	Any visible emissions Visual observation.
2	Main shale pile (portion located on Fort Hall Indian Reservation).	Any visible emissions Visual observation.
3	Emergency/contingency raw ore shale pile.	Any visible emissions Visual observation.
4	Stacker and reclaimers	Any visible emissions Visual observation.
5a	East shale baghouse	a. 5% over a 6 minute average a. Method 9.
5b	East shale baghouse building	b. Any visible emissions b. Visual observation.
6a	Middle shale baghouse	a. 5% over a 6 minute average a. Method 9.
6b	Middle shale baghouse building	b. Any visible emissions b. Visual observation.
6c	Middle shale baghouse outside capture hood—fugitive emissions.	c. 5% over a 6 minute average c. Method 9.
7a	West shale baghouse	a. 5% over a 6 minute average a. Method 9.
7b	West shale baghouse building	b. Any visible emissions b. Visual observation.
7c	West shale baghouse outside capture hood—fugitive emissions.	c. 5% over a 6 minute average c. Method 9.
8a	a. Slag handling: slag pit area and pot rooms.	a. Until November 1, 2000, emissions from the slag pit area and the pot rooms shall be exempt from opacity limits and opacity action levels. Effective November 1, 2000, the opacity action level for this source shall be 5% over a 6 minute average. <i>Exemption:</i> Fuming of molten slag in transport pots during transport are exempt from opacity limits and opacity action levels provided the pots remain in the pot room for at least 3 minutes after the flow of molten slag to the pots has ceased.
8b	b. Recycle material pile	b. Any visible emissions b. Visual observation.
8c	c. Dump to slag pile	c. Fuming of molten slag during dump to slag pile shall be exempt from opacity limits and opacity action levels.
9a	Calciner scrubbers	a. The calciner scrubbers shall be exempt from opacity limits and opacity action levels.
9b	Calciner traveling grate—fugitive emissions.	b. 5% over a 6 minute average.
10	Calciner cooler vents	5% over a 6 minute average Method 9.
11	Nodule pile	10% over a 6 minute average Method 9.
12a	North nodule discharge baghouse.	a. 5% over a 6 minute average a. Method 9.
12b	South nodule discharge baghouse.	b. 5% over a 6 minute average b. Method 9.
12c	North and south nodule discharge baghouse outside capture hood—fugitive emissions.	c. 5% over a 6 minute average c. Method 9.
13	Nodule reclaim baghouse	5% over a 6 minute average Method 9.
14	Screened shale fines pile adjacent to the West shale building. Proportioning building.	10% over a 6 minute average Method 9.
15a	a. East nodule baghouse	a. 5% over a 6 minute average a. Method 9.
15b	b. West nodule baghouse	b. 5% over a 6 minute average b. Method 9.
15c	c. Proportioning building—fugitive emissions.	c. Any visible emissions c. Visual observation.
16a	Nodule stockpile baghouse	a. 5% over a 6 minute average a. Method 9.
16b	Nodule stockpile baghouse outside capture hood—fugitive emissions.	b. 5% over a 6 minute average b. Method 9.
17a	Dust silo baghouse	a. 5% over a 6 minute average a. Method 9.
17b	Dust silo fugitive emissions and pneumatic dust handling system.	b. Any visible emissions b. Visual observation.
18a	Furnace building. a. East baghouse	a. 5% over a 6 minute average a. Method 9.
18b	b. West baghouse	b. 5% over a 6 minute average b. Method 9.
18c	c. Furnace building; any emission point except 18a, 18b, 18d, 18e, 18f, or 18g.	c. Until April 1, 2002, 10% over a 6 minute average.

TABLE 2 TO § 49.10711—Continued

I Source No.	II Source description	III V Reference test method
		Effective April 1, 2002, 5% over a 6 minute average. Method 9.
18d	d. Furnace #1 Medusa-Andersen	d, e, f, g: 5% over a 6 minute average d, e, f, g: Method 9.
18e	e. Furnace #2 Medusa-Andersen.	
18f	f. Furnace #3 Medusa-Andersen.	
18g	g. Furnace #4 Medusa-Anderson.	
19	Briquetting building	Any visible emissions Visual observation.
20a	a. Coke handling baghouse	a. 5% over a 6 minute average a. Method 9.
20b	b. Coke unloading building	b. Any visible emissions b. Visual observation.
21a	Phosphorous loading dock (phos dock), Andersen Scrubber.	a. 5% over a 6 minute average Method 9.
21b	b. Phosphorous loading dock—fugitive emissions.	b. 5% over a 6 minute average b. Method 9.
22	All roads	10% over a 6 minute average Method 9.
23	Boilers	5% over a 6 minute average Method 9.
24	Pressure relief vents	5% over a 6 minute average Method 9.
25	Furnace CO emergency flares	Any visible emissions except during an emergency flaring caused by an emergency as defined in 40 CFR 49.10711(b). Visual observation.
26a	a. Existing elevated secondary condenser flare and ground flare.	a. Exempt from opacity limits and opacity action levels.
26b	b. Excess CO burner (to be built to replace the elevated secondary condenser flare and ground flare).	5% over a 6 minute average Method 9.

§§ 49.10712–49.17810 [Reserved]

APPENDIX TO SUBPART M OF PART 49—ALPHABETICAL LISTING OF TRIBES AND CORRESPONDING SECTIONS

Indian tribe	Refer to the following sections in subpart M
Burns Paiute Tribe	§§ 49.9861–49.9890
Chehalis Reservation—Confederated Tribes of the	§§ 49.9891–49.9920
Coeur d’Alene Tribe	§§ 49.9921–49.9950
Colville Reservation—Confederated Tribes of the	§§ 49.9951–49.9980
Coos, Lower Umpqua and Suislaw Indians—Confederated Tribes of the	§§ 49.9981–49.10010
Coquille Tribe	§§ 49.10011–49.10040
Cow Creek Band of Umpqua Indians	§§ 49.10041–49.10100
Grand Ronde Community—Confederated Tribes of the	§§ 49.10101–49.10130
Hoh Indian Tribe	§§ 49.10131–49.10160
Jamestown S’Klallam Tribe	§§ 49.10161–49.10190
Kalispel Indian Community	§§ 49.10191–49.10220
Klamath Indian Tribe	§§ 49.10221–49.10250
Kootenai Tribe	§§ 49.10251–49.10280
Lower Elwah Tribal Community	§§ 49.10281–49.10310
Lummi Tribe	§§ 49.10311–49.10340
Makah Indian Tribe	§§ 49.10341–49.10370
Muckleshoot Indian Tribe	§§ 49.10371–49.10400
Nez Perce Tribe	§§ 49.10401–49.10430
Nisqually Indian Tribe	§§ 49.10431–49.10460
Nooksack Indian Tribe	§§ 49.10461–49.10490
Port Gamble Indian Community	§§ 49.10491–49.10520
Puyallup Tribe	§§ 49.10521–49.10550
Quileute Tribe	§§ 49.10551–49.10580
Quinalt Tribe	§§ 49.10581–49.10610
Samish Indian Tribe	§§ 49.10611–49.10640
Sauk–Suiattle Indian Tribe	§§ 49.10641–49.10670
Shoalwater Bay Tribe	§§ 49.10671–49.10700
Shoshone–Bannock Tribes of the Fort Hall Indian Reservation	§§ 49.10701–49.10730