

#### **4.1 Compliance Status with Applicable Requirements**

The New Mexico operating permit regulation defines “applicable requirement” at 20.2.70.7.E. NMAC. Under the Title V program, operating permits are to include identification of all applicable requirements that apply to emissions units at the permitted facility. The definition includes all relevant state and federal air quality requirements that apply to air emissions from a stationary source or facility. The major regulatory areas defined as applicable include: any requirement within the New Mexico State Implementation Plan (SIP) approved by EPA, any term or condition of an air quality construction permit, any federal National Emission Standard for Hazardous Air Pollutant (NESHAP), any federal New Source Performance Standard (NSPS), any air quality regulation adopted by the New Mexico Environmental Improvement Board (EIB), and any regulation adopted by EPA to protect stratospheric ozone under Title VI of the federal Clean Air.

The applicability of a specific regulation is typically determined by comparing the applicability criteria within the regulation with a given emissions unit’s type, size of operation or equipment, the types of pollutants emitted, and/or the construction or modification date of the unit. A review of each potentially applicable requirement was conducted, and the results are described in Table 4.1-1. The table organizes air quality regulations into two categories: EIB Regulations and Federal Applicable Requirements Not Adopted in EIB Regulations. Requirements listed under EIB Regulations are enforceable by NMED and are also federally enforceable if approved by EPA as part of the New Mexico State Implementation Plan (SIP). Requirements listed under the second heading of Federal Applicable Requirements Not Adopted in EIB Regulations are enforceable by EPA and also must be included in Title V permits whether adopted by the EIB or not. Within the table, “N/A” means the regulation has been determined to not be an applicable requirement at LANL for Title V operating permit purposes.



**Table 4.1-1. Review of Applicable Requirements by Regulation**

| Regulation                                   | Regulated Pollutants                                   | Regulated Source Category | Applicability   |
|--|--|---------------------------|---|
| <b>EIB Regulations</b>                       |  |                           |   |
| 20.2.1 NMAC<br>General Provisions            | All  | All                       | N/A -This regulation contains provisions that generally apply to all NMACs, but does not contain a requirement for an emissions unit at LANL.   |
| 20.2.2 NMAC<br>Definitions                   | All  | All                       | N/A - Applicable to other EIB regulations, but does not contain a requirement for an emissions unit at LANL - see applicability of those regulations.   |
| 20.2.3 NMAC<br>Ambient Air Quality Standards | Pollutants with<br>NM Ambient Air<br>Quality Standards | All                       | N/A - 20.2.3 NMAC sets ambient air quality standards for most of New Mexico (NMAAQS). The NMAAQS are utilized by NMED in setting allowable emission limits in the construction permit program. The NMAAQS do not apply to emissions units at Part 70 sources. |

| Regulation  | Regulated Pollutants                   | Regulated Source Category | Applicability   |
|---|--|---------------------------|---|
| 20.2.5 NMAC<br>Source Surveillance  | All                                    | All                       | N/A – 20.2.5 NMAC requires sources, upon notification by NMED, to maintain records and report on emissions of applicable sources. LANL has not received such notification; therefore, this regulation will not be specifically addressed under this application. In addition, the regulation does not specify requirements for an emissions unit at LANL. |
| 20.2.7 NMAC<br>Excess Emissions during<br>Malfunction, Startup, Shutdown, or<br>Scheduled Maintenance | All                                    | All                       | Applicable - This regulation defines compliance with emission limits in emission regulations and construction permit conditions and notification procedures for conditions creating excess emissions. It applies where an emission limit for a source is established in an EIB emission regulation or construction permit condition.                      |
| 20.2.8 NMAC<br>Emissions Leaving New Mexico   | All Emissions<br>Leaving New<br>Mexico | All                       | N/A – The regulation does not contain requirements for individual emissions units at LANL. In addition, LANL emissions do not contribute to the exceedance of standards and regulations in adjacent states.   |

| <b>Regulation</b>   | <b>Regulated Pollutants</b> | <b>Regulated Source Category</b>          | <b>Applicability</b>   |
|---|-----------------------------|---|--|
| 20.2.10 NMAC<br>Woodwaste Burners                                 | Opacity                     | Woodwaste Burners                         | N/A – LANL does not operate a woodwaste burner.  |
| 20.2.11 NMAC<br>Asphalt Process Equipment                         | Particulate Matter (PM)     | Asphalt Plant                             | Applicable - The regulation applies to the Barber-Greene and BDM Engineering asphalt plants. |
| 20.2.12 NMAC<br>Cement Kilns                                      | PM                          | Cement Kilns                              | N/A – LANL does not operate a cement kiln.   |
| 20.2.13 NMAC<br>Gypsum Processing Plants                          | PM                          | Gypsum Plants                             | N/A – LANL does not operate a gypsum plant.  |
| 20.2.14 NMAC<br>Particulate Emissions from Coal Burning Equipment | PM                          | Coal Burning Equipment                    | N/A – LANL does not operate coal burning equipment.  |
| 20.2.15 NMAC<br>Pumice, Mica, Perlite Process Equipment           | PM                          | Pumice, Mica, Perlite Equipment           | N/A – LANL does not operate pumice, mica, or perlite processing equipment.                   |
| 20.2.16 and 17 NMAC <sup>1</sup><br>Nonferrous Smelters - PM      | PM                          | Nonferrous Smelters                       | N/A – LANL does not operate a nonferrous smelter.  |
| 20.2.18 NMAC<br>Oil Burning Equipment - PM                        | PM                          | Oil Burning Equipment<br>≥ 250 MMBTU/Unit | N/A - The maximum capacity of LANL's largest boilers at TA-3-22 is 210 MMBTU/hr.             |

| Regulation   | Regulated Pollutants | Regulated Source Category      | Applicability  |
|--|----------------------|--------------------------------|--|
| 20.2.19 NMAC<br>Potash, Salt, or Sodium Sulfate Processing Equipment         | PM                   | Potash, Salt Process Equipment | N/A – LANL does not operate potash, salt or sodium sulfate processing equipment. |
| 20.2.20 NMAC<br>Lime Manufacturing Plants - PM                               | PM                   | Lime Manufacturing             | N/A – LANL does not operate a lime manufacturing plant.                          |
| 20.2.21 NMAC<br>Fugitive PM Emissions from Nonferrous Smelters               | PM                   | Nonferrous Smelters            | N/A – LANL does not operate a nonferrous smelter.                                |
| 20.2.22 NMAC<br>Fugitive PM Emissions from Roads within the Town of Hurley   | PM                   | Roads - Town of Hurley         | N/A – LANL is not within the Town of Hurley.                                     |
| 20.2.30 NMAC<br>Kraft Mills  | Total Reduced Sulfur | Kraft Mills                    | N/A – LANL does not operate a kraft mill.  |
| 20.2.31 NMAC<br>Coal Burning Equipment - Sulfur Dioxide (SO <sub>2</sub> )   | SO <sub>2</sub>      | Coal Burning Equipment         | N/A – LANL does not operate coal burning equipment.                              |
| 20.2.32 NMAC<br>Coal Burning Equipment - Nitrogen Dioxide (NO <sub>2</sub> ) | NO <sub>2</sub>      | Coal Burning Equipment         | N/A – LANL does not operate coal burning equipment.                              |

| Regulation   | Regulated Pollutants  | Regulated Source Category   | Applicability  |
|--|---|---|--|
| 20.2.33 NMAC<br>Gas Burning Equipment -NO <sub>2</sub>       | NO <sub>2</sub>   | Gas Burning Equipment<br>- Heat Inputs<br>>1,000,000<br>MMBTU/unit  | Applicable - LANL's three TA-3 boilers have a rated heat capacity greater than 1,000,000 MMBTU/year. |
| 20.2.34 NMAC<br>Oil Burning Equipment - NO <sub>2</sub>      | NO <sub>2</sub>   | Oil Burning Equipment<br>- Heat Input >1,000,000<br>MMBTU/year/unit | Applicable - LANL's three TA-3 boilers have a rated heat capacity greater than 1,000,000 MMBTU/year. |
| 20.2.35 NMAC<br>Natural Gas Processing Plant - Sulfur        | Sulfur  | Natural Gas Processing<br>Plants                                    | N/A – LANL does not operate a natural gas processing plant.  |
| 20.2.36 NMAC <sup>1</sup><br>Petroleum Refinery - Sulfur     | Sulfur  | Petroleum Processing<br>Facilities                                  | N/A – LANL does not operate a petroleum refinery.  |
| 20.2.37 NMAC <sup>1</sup><br>Petroleum Processing Facilities | Ammonia, Carbon<br>Monoxide (CO),<br>Hydrocarbons,<br>Hydrogen Sulfide<br>(H <sub>2</sub> S), Mercaptans,<br>PM | Petroleum Processing<br>Facilities                                  | N/A - LANL does not operate a petroleum processing facility.   |

| Regulation   | Regulated Pollutants                                     | Regulated Source Category   | Applicability   |
|--|--|---|---|
| 20.2.38 NMAC <sup>1</sup><br>Hydrocarbon Storage Facilities                                      | Hydrocarbons<br>Containing H <sub>2</sub> S              | Tank Batteries and<br>Hydrocarbon Storage<br>Facilities Operated in<br>Conjunction with<br>Petroleum Production<br>Facilities | N/A – LANL does not operate tank<br>batteries or hydrocarbon storage facilities<br>operated in conjunction with petroleum<br>production facilities. |
| 20.2.39 NMAC <sup>1</sup><br>Sulfur Recovery Plant - Sulfur                                      | Sulfur   | Sulfur Recovery Plants  | N/A – LANL does not operate a sulfur<br>recovery plant.   |
| 20.2.40 NMAC<br>Sulfuric Acid Production Units -<br>SO <sub>2</sub> /Acid Mist/Visible Emissions | SO <sub>2</sub> , Acid Mist,<br>and Visible<br>Emissions | Sulfuric Acid<br>Production Units   | N/A – LANL does not operate a sulfuric<br>acid production unit.   |
| 20.2.41 NMAC<br>Nonferrous Smelters - Sulfur   | Sulfur   | Nonferrous Smelters   | N/A – LANL does not operate a<br>nonferrous smelter.  |
| 20.2.42 NMAC <sup>1</sup><br>Coal Mining and Preparation Plants -<br>PM                          | PM   | Coal Mining and<br>Preparation Plants   | N/A – LANL does not operate a coal<br>mining and preparation plant.   |
| 20.2.43 <sup>1</sup><br>Gasification Plants  | Various  | Gasification Plants   | N/A – LANL does not operate a<br>gasification plant.  |
| 20.2.60 NMAC<br>Open Burning   | None   | Open Burning  | Applicable - LANL conducts open<br>burning. LANL obtained open burn<br>permits for those activities.  |



| Regulation   | Regulated Pollutants   | Regulated Source Category   | Applicability   |
|--|--|---|---|
| 20.2.61 NMAC<br>Smoke and Visible Emissions              | Smoke and Visible Emissions  | Stationary Combustion Equipment; Diesel-Powered Vehicles; Diesel Powered Locomotives; Air Curtain destructors | Applicable – LANL has stationary combustion sources not subject to Parts 10 through 18, 37, and 42 or any other part that specifically limits particulate emissions, and diesel-powered vehicles. |
| 20.2.62 NMAC <sup>1</sup><br>Municipal Waste Combustion  | Listed in regulation   | Municipal Waste Incinerators  | N/A – LANL does not operate a municipal waste combustion unit.  |
| 20.2.63 NMAC <sup>1</sup><br>Biomedical Waste Combustion | Listed in regulation   | Biomedical Waste Incinerators   | N/A – LANL does not operate a biomedical waste combustion unit.   |
| 20.2.64 NMAC<br>Municipal Solid Waste Landfills          | Nonmethane organic compounds   | Municipal Landfill  | N/A –LANL does not operate a municipal landfill.  |
| 20.2.70 NMAC<br>Operating Permits                        | Criteria Pollutants, Section 112(b)HAPs, Section 112(r) regulated substances, NSPS/NESHAP-Regulated Pollutants, Title VI Class I/II substances | All Emission Units at Major Stationary Sources  | Applicable – This application fulfills the requirements of 20.2.70.   |

| <b>Regulation</b>                              | <b>Regulated Pollutants</b>  | <b>Regulated Source Category</b>  | <b>Applicability</b>  |
|--|------------------------------|---|---|
| 20.2.71 NMAC<br>Operating Permit Emission Fees | All fee pollutants specified | All Emissions Units at Stationary Sources, except those considered "Insignificant Activities" or otherwise exempted.  | Applicable – LANL has submitted operating permit fees for the past several years and will continue to pay fees based on the emission levels permitted. Fees are described in Chapter 2 of this application.         |
| 20.2.72 NMAC<br>Construction Permits           | All                          | New and Modified Sources with a potential emission rate greater than 10 lb/hr or 25 tpy of any air pollutant for which there is a NAAQS or NMAAQS, or 5 tpy of lead | Applicable – Construction permit applications, permit revisions, and permit exemption notifications have been submitted when required. Conditions in permits issued under 20.2.72 NMAC are applicable requirements. |

| <b>Regulation</b>   | <b>Regulated Pollutants</b>                                | <b>Regulated Source Category</b>   | <b>Applicability</b>   |
|---|--|--|--|
| <p>20.2.73 NMAC<br/>Notice of Intent and Emissions Inventory Requirements</p> | <p>All pollutants for which there is a NAAQS or NMAAQS</p> | <p>Notice of Intent for New and Modified Sources with a potential emission rate greater than 10 tpy of any pollutant for which there is a NAAQS or NMAAQS, or 1 tpy of lead</p> <p>Emission Inventory Requirements</p> | <p>Applicable - LANL must notify NMED of any new or modified source of regulated air contaminant with an emission rate greater than 10 tons per year of any regulated air contaminant or 1 ton per year of lead. LANL has been required to supply such notifications and will continue to do so as applicable.</p> <p>Applicable – LANL provides annual emissions information to NMED as required.</p> |

| Regulation  | Regulated Pollutants | Regulated Source Category  | Applicability   |
|---|----------------------|--|---|
| 20.2.74 NMAC<br>Permits - Prevention of Significant Deterioration   | All                  | Stationary Sources with a potential to emit greater than 250 tpy (or 100 tpy if a listed source) | Applicable - LANL has neither constructed nor modified a source with emissions greater than the significance levels listed in this regulation. There are no existing PSD permit conditions that are applicable requirements. LANL is applying for federally enforceable emission and operational limitations as part of this application to limit the Laboratory's potential to emit below 250 tons per year or 100 tons per year where necessary of any regulated air pollutant. When those conditions become effective, LANL will not be a "major source" subject to this regulation. |
| 20.2.75 NMAC<br>Construction Permit Fees  | All                  | All  | Applicable - Identifies fees to be paid for applications to construct or modify. LANL pays these fees on construction permits when required.  |
| <b>20.2.77 NMAC<br/>Incorporating Federal New Source Performance Standards (NSPS) 40 CFR Part 60 By Reference</b> |                      |  |   |

| Regulation  | Regulated Pollutants  | Regulated Source Category                            | Applicability   |
|---|---|--|---|
| Subpart A - General Provisions  | All NSPS Pollutants   | General New Source Performance Standard Requirements | Applicable - This regulation affects sources subject to NSPS, unless otherwise exempted by the specific NSPS rule applicable to a source. LANL has sources regulated under four NSPS subparts: Dc, I, Kb, and CCCC. |
| Subpart B - Adoption and Submittal of State Plans for Designated Facilities   | All NSPS Pollutants   | All Facilities Affected by an NSPS                   | N/A - This regulation sets requirements for states, not individual facilities.  |
| Subpart Cb - Emissions Guidelines and Compliance Times for Large Municipal Waste Combustors Constructed on or before September 20, 1994 | Metals, Organics, Acid Gases, Sulfuric Acid Mist, NO <sub>x</sub> | Municipal Waste Combustors                           | N/A – LANL does not operate a large municipal waste combustor.  |
| Subpart Cc – Emissions Guidelines and Compliance Times for Municipal Solid Waste Landfills  | Metals, Organics, Acid Gases, Sulfuric Acid Mist, NO <sub>x</sub> | Municipal Solid Waste Landfills                      | N/A – LANL does not operate a municipal solid waste landfill.   |
| Subpart Cd – Emissions Guidelines and Compliance Times for Sulfuric Acid Production Units   | SO <sub>2</sub><br>Sulfuric Acid Mist                             | Sulfuric Acid Production Units                       | NA – LANL does not operate a sulfuric acid production unit.   |

| Regulation   | Regulated Pollutants   | Regulated Source Category  | Applicability   |
|--|--|--|---|
| Subpart Ce – Emission Guidelines and Compliance Times for Hospital/Medical/Infectious Waste Incinerators                   | PM<br>CO<br>Dioxins/furans<br>Hydrogen chloride<br>Sulfur dioxide<br>Nitrogen oxides<br>Lead<br>Cadmium<br>Mercury | Hospital/Medical/ Infectious Waste Incinerators  | N/A – LANL does not operate a hospital/medical/infectious waste incinerator.  |
| Subpart D - NSPS for Fossil-Fuel-Fired Steam Generators for which Construction is Commenced after August 17, 1971          | PM<br>SO <sub>2</sub><br>NO <sub>x</sub>   | Fossil-Fuel-Fired Steam Generators >250 MMBTU/hr   | N/A - LANL does not operate a steam generator-greater than 250 MMBTU/hr.  |
| Subpart Da - NSPS for Electric Utility Steam Generating Units for which Construction is Commenced after September 18, 1978 | PM<br>SO <sub>2</sub><br>NO <sub>x</sub>   | Electric Utility Steam Generating Unit >250 MMBTU/hr Constructed/Modified after September 18, 1978 | N/A - The steam generating units at TA-3-22 were constructed prior to September 18, 1978 and are smaller than 250 MMBTU/hr.             |
| Subpart Db - NSPS for Industrial-Commercial-Institutional Steam Generating Units   | PM<br>SO <sub>2</sub>  | Steam Generating Units Constructed/Modified after June 9, 1989 with a Heat Input of >100 MMBTU/hr  | N/A -The boiler units with capacities greater than 100 MMBTU/hr are located at the TA-3 steam plant, but were constructed in 1950-1952. |

| Regulation   | Regulated Pollutants                                      | Regulated Source Category   | Applicability   |
|--|---|---|---|
| Subpart Dc - NSPS for Small Industrial-Commercial-Institutional Steam Generating Units                           | PM<br>SO <sub>2</sub>                                     | Steam Generating Units Constructed or Modified after June 9, 1989 with Heat Capacity <100 MMBTU/hr and >10 MMBTU/hr | Applicable - LANL has two boilers at TA-55 with a rated capacity between 10 MMBTU/HR and 100 MMBTU/HR that were constructed after 1989.         |
| Subpart E - NSPS for Incinerators  | PM  | Incinerators >50 tons/day charging rate   | N/A – LANL does not operate an incinerator. A previously permitted incinerator (TA-16-1409) was dismantled and shipped off-site in August 2000. |
| Subpart Ea - NSPS for Municipal Waste Combustors   | Metals<br>Organics<br>Acid Gases<br>NO <sub>x</sub>       | Municipal Waste Combustors constructed or modified after December 20, 1989 and before September 20, 1994            | N/A – LANL does not operate a municipal waste combustor.  |
| Subpart Eb – NSPS for Large Municipal Waste Combustors for which construction commenced after September 20, 1994 | Metals<br>Organics<br>Acid Gases<br>NO <sub>x</sub><br>PM | Municipal Waste Combustors constructed after September 20, 1994 or modified after June 19, 1996                     | N/A – LANL does not operate a municipal waste combustor.  |

| Regulation   | Regulated Pollutants                                | Regulated Source Category  | Applicability  |
|--|---|--|--|
| Subpart Ec – NSPS for Hospital/Medical/Infectious Waste Incinerators for which construction is commenced after June 20, 1996 | Metals<br>Organics<br>Acid Gases<br>NO <sub>x</sub> | Hospital/Medical/Infectious Waste Incinerators constructed after June 20, 1996 | N/A – LANL does not operate a hospital/medical/infectious waste incinerator.   |
| Subpart F - NSPS for Portland Cement Plants  | PM  | Portland Cement Plants   | N/A—LANL does not operate a Portland cement plant.   |
| Subpart G - NSPS for Nitric Acid Plants  | NO <sub>x</sub>                                     | Nitric Acid Plants and Production Units  | N/A – LANL does not operate a nitric acid plant or production unit.  |
| Subpart H - NSPS for Sulfuric Acid Plants  | SO <sub>2</sub><br>Sulfuric Acid Mist               | Sulfuric Acid Plants and Production Units                                      | N/A – LANL does not operate a sulfuric acid plant or production unit.  |
| Subpart I - NSPS for Hot Mix Asphalt Facilities  | PM  | Hot Mix Asphalt Facilities constructed or modified after June 11, 1973         | Applicable – Subpart I applies to the BDM Engineering asphalt plant. Subpart I does not apply to LANL's existing asphalt plant which was constructed in 1960; the pollution control equipment was installed in 1962. |
| Subpart J - NSPS for Petroleum Refineries  | PM<br>CO  | Petroleum Refineries   | N/A – LANL does not operate a petroleum refinery.  |



| Regulation  | Regulated Pollutants              | Regulated Source Category   | Applicability   |
|---|-----------------------------------|---|---|
| Subpart K - NSPS for Storage Vessels for Petroleum Liquids    | Volatile Organic Compounds (VOCs) | Storage vessels (>40,000 gal) for petroleum liquids for which construction or modification commenced after June 11, 1973 and prior to May 19, 1978  | N/A - LANL tanks of this size are exempt because they were either built before the effective date of this regulation or store exempt materials. |
| Subpart Ka - NSPS for Storage Vessels for Petroleum Liquids   | VOCs                              | Storage vessels (>40,000 gal) for petroleum liquids for which construction or modification commenced after May 18, 1978, and prior to July 23, 1984 | N/A - LANL tanks of this size are exempt because they were either built before the effective date of this regulation or store exempt materials. |
| Subpart Kb - NSPS for Volatile Organic Liquid Storage Vessels | VOCs                              | Storage vessels (>40 cubic meters) for volatile organic liquids for which construction or modification commenced after July 23, 1984                | Applicable - However, the regulation only requires the Laboratory to keep records of the tank dimensions and capacities.                        |

| Regulation   | Regulated Pollutants  | Regulated Source Category   | Applicability  |
|--|-----------------------|---|--|
| Subpart L - NSPS for Secondary Lead Smelters                                       | PM                    | Secondary lead smelters >250 Kg (550 lb) charging capacity                                  | N/A – LANL does not operate a secondary lead smelter                       |
| Subpart M - NSPS for Secondary Brass and Bronze Production Plants                  | PM                    | Secondary brass and bronze Plants >1000 kg (2205 lb) production capacity                    | N/A – LANL does not operate a secondary brass or bronze production plant.  |
| Subpart N - NSPS for Primary Emissions from Basic Oxygen Process Furnaces          | PM                    | Basic Oxygen Process Furnace Constructed after June 11, 1973                                | N/A – LANL does not operate a basic oxygen process furnace.                |
| Subpart Na - NSPS for Secondary Emissions from Basic Oxygen Steelmaking Facilities | PM                    | Steelmaking Facilities with Basic Oxygen Process Furnace Constructed after January 20, 1983 | N/A – LANL does not operate a steelmaking facility.                        |
| Subpart O - NSPS for Sewage Treatment Plants                                       | PM                    | Incinerators Used to Treat Municipal Sewage   | N/A – LANL does not operate an incinerator used to treat municipal sewage. |
| Subpart P - NSPS for Primary Copper Smelters                                       | PM<br>SO <sub>2</sub> | Primary Copper Smelters   | N/A – LANL does not operate a primary copper smelter.                      |

| Regulation   | Regulated Pollutants  | Regulated Source Category  | Applicability  |
|--|-----------------------|--|--|
| Subpart Q - NSPS for Primary Zinc Smelters   | PM<br>SO <sub>2</sub> | Primary Zinc Smelters  | N/A – LANL does not operate a primary zinc smelter.              |
| Subpart R - NSPS for Primary Lead Smelters   | PM<br>SO <sub>2</sub> | Primary Lead Smelters  | N/A – LANL does not operate a primary lead smelter.              |
| Subpart S - NSPS for Primary Aluminum Reduction Plants                                     | Fluorides             | Aluminum Reduction Plants  | N/A – LANL does not operate an aluminum reduction plant.         |
| Subpart T - NSPS for the Phosphate Fertilizer Industry: Wet Process Phosphoric Acid Plants | Fluorides             | Phosphate Fertilizer Industry - Wet Process Phosphoric Acid Plants | N/A – LANL does not operate a wet process phosphoric acid plant. |
| Subpart U - NSPS for the Phosphate Fertilizer Industry: Superphosphoric Acid Plants        | Fluorides             | Phosphate Fertilizer Industry - Superphosphoric Acid Plants        | N/A – LANL does not operate a superphosphoric acid plant.        |
| Subpart V - NSPS for the Phosphate Fertilizer Industry: Diammonium Phosphate Plants        | Fluorides             | Phosphate Fertilizer Industry - Diammonium Phosphate Plants        | N/A – LANL does not operate a diammonium phosphate plant.        |
| Subpart W - NSPS for the Phosphate Fertilizer Industry: Triple Superphosphate Plants       | Fluorides             | Phosphate Fertilizer Industry - Triple Superphosphoric Acid Plants | N/A – LANL does not operate a triple superphosphoric acid plant. |

| <b>Regulation</b>   | <b>Regulated Pollutants</b> | <b>Regulated Source Category</b>  | <b>Applicability</b>   |
|---|-----------------------------|---|--|
| Subpart X - NSPS for the Phosphate Fertilizer Industry: Granular Triple Superphosphate Storage Facilities | Fluorides                   | Phosphate Fertilizer Industry - Triple Superphosphoric Storage Facilities     | N/A – LANL does not operate a triple superphosphoric storage facility. |
| Subpart Y - NSPS for Coal Preparation Plants  | PM                          | Coal Preparation Plants   | N/A – LANL does not operate a coal preparation plant.                  |
| Subpart Z - NSPS for Ferroalloy Production Facilities   | PM                          | Ferroalloy Production Facilities  | N/A – LANL does not operate a ferroalloy production facility.          |
| Subpart AA - NSPS for Electric Arc Furnaces   | PM                          | Steel Plants - Electric Arc Furnaces  | N/A – LANL does not operate a steel plant.                             |
| Subpart AAa - NSPS for Electric Arc Furnaces and Argon-Oxygen Decarburization Vessels                     | PM                          | Steel Plants - Electric Arc Furnaces and Argon-oxygen Decarburization Vessels | N/A -- LANL does not operate a steel plant.                            |
| Subpart BB - NSPS for Kraft Pulp Mills  | PM<br>Sulfur                | Kraft Pulp Mills  | N/A – LANL does not operate a kraft pulp mill.                         |
| Subpart CC - NSPS for Glass Manufacturing Plants  | PM                          | Glass Manufacturing Plants > 4550 kg/day Production                           | N/A – LANL does not operate a glass manufacturing plant.               |
| Subpart DD - NSPS for Grain Elevators   | PM                          | Grain Elevators   | N/A – LANL does not operate a grain elevator.                          |

| <b>Regulation</b>  | <b>Regulated Pollutants</b>        | <b>Regulated Source Category</b>   | <b>Applicability</b>   |
|--|------------------------------------|--|--|
| Subpart EE - NSPS for Surface Coating of Metal Furniture                         | VOCs                               | Organic Surface Coating of Metal Furniture<br>Constructed/Modified after November 28, 1980 | N/A - LANL has 2 existing paint booths. Metal furniture is occasionally painted in the paint booths at TA-3-38. This facility was constructed prior to the applicability date of this regulation. The TA-60 paint booth was constructed in 1986, but no furniture painting takes place in that facility. |
| Subpart GG - NSPS for Stationary Gas Turbines                                    | NO <sub>x</sub><br>SO <sub>2</sub> | Stationary Gas Turbines with Heat Input > 10 gigajoules/hour                               | N/A - LANL does not operate any stationary gas turbines. LANL has only steam turbines.   |
| Subpart HH - NSPS for Lime Manufacturing Plants                                  | PM                                 | Lime Manufacturing Plants  | N/A - LANL does not operate a lime manufacturing plant.  |
| Subpart KK - NSPS for Lead-Acid Battery Manufacturing Plants                     | Lead                               | Lead-Acid Battery Manufacturing Plants   | N/A - LANL does not operate a lead-acid battery manufacturing plant.   |
| Subpart LL - NSPS for Metallic Mineral Processing Plants                         | PM                                 | Metallic Mineral Processing Plants   | N/A - LANL does not operate any metallic mineral processing plants.  |
| Subpart MM - NSPS for Automobile and Light-Duty Truck Surface Coating Operations | VOCs                               | Auto and Light Truck Assembly Plants   | N/A - LANL does not operate any auto or light truck assembly plants.   |
| Subpart NN - NSPS for Phosphate Rock Plants                                      | PM                                 | Phosphate Rock Plants  | N/A - LANL does not operate any phosphate rock plants.   |

| Regulation   | Regulated Pollutants | Regulated Source Category   | Applicability   |
|--|----------------------|---|---|
| Subpart PP - NSPS for Ammonium Sulfate Manufacture                                 | PM                   | Ammonium Sulfate Manufacturing  | N/A – LANL does not operate any ammonium sulfate manufacturing operations.  |
| Subpart QQ - NSPS for Graphics Art Industry: Publication Rotogravure Printing      | VOCs                 | Graphics Arts Industry - Publication Rotogravure Printing                     | N/A – LANL does not operate any publication rotogravure printing operations.  |
| Subpart RR - NSPS for Pressure Sensitive Tape and Label Surface Coating Operations | VOCs                 | Pressure Sensitive Tape and Label Manufacturing                               | N/A – LANL does not operate any pressure sensitive tape or label manufacturing operations.  |
| Subpart SS - NSPS for Industrial Surface Coating - Large Appliances                | VOCs                 | Large Appliance Surface Coating Lines   | N/A – LANL does not operate any large appliance surface coating operations.   |
| Subpart TT - NSPS for Metal Coil Surface Coating                                   | VOCs                 | Metal Coil Surface Coating  | N/A – LANL does not operate any metal coil surface coating operations.  |
| Subpart UU - NSPS for Asphalt Processing and Asphalt Roofing Manufacture           | PM                   | Asphalt Processing and Asphalt Roofing Manufacturing and Petroleum Refineries | N/A -LANL does not operate any asphalt processing or asphalt roofing manufacturing operations. Note that here asphalt processing plant means a plant that blows asphalt for use in the manufacture of asphalt products. |

| Regulation   | Regulated Pollutants | Regulated Source Category  | Applicability  |
|--|----------------------|--|--|
| Subpart VV - NSPS for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry [SOCMI] | VOCs                 | SOCMI Facilities   | N/A – LANL does not operate any synthetic organic chemical manufacturing operations.   |
| Subpart WW - NSPS for the Beverage Can Surface Coating Industry  | VOCs                 | Beverage Can Surface Coating Lines   | N/A – LANL does not operate any beverage can surface coating operations.   |
| Subpart XX - NSPS for Bulk Gasoline Terminals  | VOCs                 | Loading Racks at Bulk Gasoline Terminals Constructed or Modified after December 17, 1980 | N/A – LANL does not operate any bulk gasoline terminals. While LANL has gasoline storage tanks, it is not a bulk gasoline terminal, which must receive gasoline by pipeline, barge, or ship and transfer fuel to tank trucks. LANL receives gasoline by truck and transfers it to Laboratory-owned vehicles. |
| Subpart BBB - NSPS for the Rubber Tire Manufacturing Industry  | VOCs                 | Rubber Tire Manufacturers  | N/A – LANL does not operate a rubber tire manufacturing operation.   |
| Subpart DDD - NSPS for VOC Emissions from the Polymer Manufacturing Industry                                   | VOCs                 | Manufacturers of Polymers  | N/A – LANL does not operate a polymer manufacturing operation.   |

| Regulation   | Regulated Pollutants | Regulated Source Category   | Applicability   |
|--|----------------------|---|---|
| Subpart FFF - NSPS for Flexible Vinyl and Urethane Coating and Printing                  | VOCs                 | Rotogravure Printing Lines  | N/A – LANL does not operate a flexible vinyl or urethane coating or printing operation. |
| Subpart GGG - NSPS for Equipment Leaks of VOC in Petroleum Refineries                    | VOCs                 | Equipment Leaks in Petroleum Refineries                               | N/A – LANL does not operate a petroleum refinery.                                       |
| Subpart HHH - NSPS for Synthetic Fiber Production Facilities                             | VOCs                 | Solvent-spun Synthetic Fiber Process > 500 mg Fiber Capacity per year | N/A – LANL does not operate a synthetic fiber production facility.                      |
| Subpart III - NSPS for VOC Emissions from the SOCFMI Air Oxidation Unit Processes        | VOCs                 | SOCMI Air Oxidation Units   | N/A – LANL does not operate a SOCFMI air oxidation unit.                                |
| Subpart JJJ - NSPS for Petroleum Dry Cleaners  | VOCs                 | Petroleum Dry Cleaners  | N/A – LANL does not operate a petroleum dry cleaning operation.                         |
| Subpart KKK - NSPS for Equipment Leaks of VOC from Onshore Natural Gas Processing Plants | VOCs                 | Equipment Leaks from Onshore Natural Gas Processing Plants            | N/A – LANL does not operate an onshore natural gas processing facility.                 |
| Subpart LLL - NSPS for Onshore Natural Gas Processing: SO <sub>2</sub> Emissions         | SO <sub>2</sub>      | Onshore Natural Gas Processing  | N/A – LANL does not operate an onshore natural gas processing facility.                 |



| <b>Regulation</b>   | <b>Regulated Pollutants</b> | <b>Regulated Source Category</b>                           | <b>Applicability</b>   |
|---|-----------------------------|--|--|
| Subpart NNN - NSPS for VOC Emissions from SOCFI Distillation Operations                                   | VOCs                        | SOCMI Distillation Operations                              | N/A – LANL does not operate a SOCFI distillation operation.                        |
| Subpart OOO - NSPS for Nonmetallic Mineral Processing Plants  | PM                          | Nonmetallic Mineral Processing Plants                      | N/A – LANL does not operate a nonmetallic mineral processing plant.                |
| Subpart PPP - NSPS for Wool Fiberglass Insulation Manufacturing Plants                                    | PM                          | Rotary Spin Wool Fiberglass Insulation Manufacturing Lines | N/A – LANL does not operate a wool fiberglass insulation manufacturing plant.      |
| Subpart QQQ - NSPS for VOC Emissions from Petroleum Refinery Wastewater Systems                           | VOCs                        | Petroleum Refinery Wastewater Systems                      | N/A – LANL does not operate a petroleum refinery.                                  |
| Subpart RRR - NSPS for VOC Emissions from SOCFI Reactor Processes   | VOCs                        | Reactor and Recovery Processes in the SOCFI Industry       | N/A – LANL does not operate a SOCFI manufacturing operation.                       |
| Subpart SSS - NSPS for Magnetic Tape Coating Facilities   | VOCs                        | Magnetic Tape Manufacturing Facilities                     | N/A – LANL does not operate a magnetic tape manufacturing facility.                |
| Subpart TTT - NSPS for Industrial Surface Coating: Surface Coating of Plastic Parts for Business Machines | VOCs                        | Spray Booths used in Business Machines Manufacturing       | N/A – LANL does not operate a spray booth used in business machines manufacturing. |

| Regulation   | Regulated Pollutants  | Regulated Source Category   | Applicability  |
|--|---|---|--|
| Subpart UUU - NSPS for Calciners and Dryers in Mineral Industries            | PM  | Calciners and Dryers at Mineral Processing Plants                       | N/A – LANL does not operate a mineral processing plant.                          |
| Subpart VVV - NSPS for Polymeric Coating of Supporting Substrates Facilities | VOCs  | Elastomer/ Polymer/ Prepolymer Web Coating Processes                    | N/A – LANL does not operate a polymer coating of supporting substrates facility. |
| Subpart WWW-NSPS for Municipal Solid Waste Landfills                         | Non-Methane Organic Compounds   | Municipal Solid Waste Landfills   | N/A – LANL does not operate a municipal waste landfill.                          |
| Subpart AAAA – NSPS for Small Municipal Waste Combustion Units               | Dioxins/furans<br>Cadmium<br>Lead<br>Mercury<br>Particulate matter<br>Hydrogen chloride<br>Nitrogen oxides<br>Sulfur dioxide<br>Carbon monoxide<br>Fugitive ash | Small Municipal Waste Combustion Units (>35 tons/day and <250 tons/day) | N/A – LANL does not operate a small municipal waste combustion unit.             |

| Regulation   | Regulated Pollutants  | Regulated Source Category                          | Applicability   |
|--|---|--|---|
| Subpart BBBB – Emission Guidelines and Compliance Times for Small Municipal Waste Combustion Units   | Dioxins/furans<br>Cadmium<br>Lead<br>Mercury<br>Particulate matter<br>Hydrogen chloride<br>Nitrogen oxides<br>Sulfur dioxide<br>Carbon monoxide<br>Fugitive ash | Applies to State Air Quality Program Offices       | N/A – The regulation only applies to state air quality program offices.   |
| Subpart CCCC – NSPS for Commercial and Industrial Solid Waste Incineration Units   | Opacity   | Commercial and Industrial Solid Waste Incinerators | Applicable – LANL operates air curtain incinerators for burning wood and yard wastes. These units are only subject to the opacity limits and reporting and recordkeeping requirements of this rule (Sections §60.2245 to 60.2260.). |
| Subpart DDDD – Emission Guidelines and Compliance Times for Commercial and Industrial Solid Waste Incineration Units                                 | Cadmium<br>Carbon monoxide<br>Dioxins/furans<br>Hydrogen chloride<br>Lead<br>Mercury<br>Opacity<br>Nitrogen oxides<br>Particulate matter<br>Sulfur dioxide      | Applies to State Air Quality Program Offices       | N/A– The regulation only applies to state air quality program offices.  |
| <p><b>20.2.78 NMAC</b><br/> <b>Incorporating By Reference 40 CFR Part 61, National Emissions Standards for Hazardous Air Pollutants (NESHAP)</b></p> |   |  |   |

| Regulation   | Regulated Pollutants            | Regulated Source Category  | Applicability  |
|--|---------------------------------|--|--|
| Subpart A - NESHAP - General Provisions              | All NESHAP-regulated pollutants | Various  | Applicable – LANL’s beryllium machining operations are subject to 40 CFR 61, Subpart C. The provisions of Subpart A are also incorporated into the construction permits for those operations. Because the requirements of Subpart A are incorporated into these other subparts, it will not be separately addressed in this application. |
| Subpart C - NESHAP for Beryllium                     | Beryllium                       | Extraction Plants<br>Ceramic Plants<br>Foundries<br>Incinerators<br>Propellant Plants<br>Machine Shops                         | Applicable – LANL’s beryllium machining operations are subject to Subpart C.   |
| Subpart D - NESHAP for Beryllium Rocket Motor Firing | Beryllium                       | Rocket Motor Firing  | N/A – LANL does not operate a rocket motor firing operation.   |
| Subpart E - NESHAP for Mercury                       | Mercury                         | Mercury ore processors and mercury chlor-alkali cells which produce chlorine gas and incinerate or dry wastewater plant sludge | N/A – LANL does not operate a mercury ore processing operation or a mercury chlor-alkali cell.   |

| <b>Regulation</b>  | <b>Regulated Pollutants</b> | <b>Regulated Source Category</b>   | <b>Applicability</b>  |
|--|-----------------------------|--|---|
| Subpart F - NESHAP for Vinyl Chloride  | Vinyl Chloride              | Vinyl chloride and ethylene dichloride manufacturing facilities  | N/A – LANL does not operate any vinyl chloride or ethylene dichloride manufacturing operations. |
| Subpart J - NESHAP for Equipment Leaks of Benzene                                  | Benzene                     | Equipment leaks from equipment used to process benzene from plants that produce or use >1000 megagrams of benzene per year | N/A – LANL does not operate any sources intended to operate in benzene service.                 |
| Subpart L - NESHAP for Benzene Emissions from Coke By-Product Recovery Plants      | Benzene                     | Coke by-product recovery plants  | N/A – LANL does not operate a coke by-product recovery facility.                                |
| Subpart M -NESHAP for Asbestos   | Asbestos                    | Asbestos mills, asbestos manufacturing, demolition and renovation, spraying, fabrication                                   | Applicable - LANL participates in demolition and renovation activities involving asbestos.      |
| Subpart N - NESHAP for Inorganic Arsenic Emissions from Glass Manufacturing Plants | Inorganic Arsenic           | Glass Manufacturing Plants   | N/A – LANL does not operate a glass manufacturing plant.  |
| Subpart O - NESHAP for Inorganic Arsenic Emissions from Primary Copper Smelters    | Inorganic Arsenic           | Primary Copper Smelters  | N/A – LANL does not operate a primary copper smelter.   |

| Regulation  | Regulated Pollutants      | Regulated Source Category   | Applicability   |
|---|---------------------------|---|---|
| Subpart P - NESHAP for Inorganic Arsenic Emissions from Arsenic Trioxide and Metallic Arsenic Production Facilities | Inorganic Arsenic         | Arsenic Production Facilities   | N/A – LANL does not operate an arsenic production facility.   |
| Subpart V - NESHAP for Equipment Leaks  | Benzene<br>Vinyl Chloride | Equipment in Volatile Hazardous Air Pollutant Service                     | N/A – LANL does not operate any sources intended to operate in volatile hazardous air pollutant service.  |
| Subpart Y - NESHAP for Benzene Emissions from Benzene Storage Vessels   | Benzene                   | Benzene Storage Vessels >10,000 gallons                                   | N/A – LANL does not operate a benzene storage vessel.   |
| Subpart BB - NESHAP from Benzene Emissions from Benzene Transfer Operations)  | Benzene                   | Benzene Loading Racks at Benzene Production Facilities and Bulk Terminals | N/A – LANL does not operate a benzene transfer operation.   |
| Subpart FF - NESHAP for Benzene Waste Operations  | Benzene                   | Chemical Manufacturing<br>Coke Byproduct<br>Petroleum Refineries          | N/A – LANL does not operate a benzene waste operation.  |
| 20.2.79 NMAC Permits - Nonattainment Areas  | All                       | Sources in Nonattainment Areas  | N/A - The regulation does not specify requirements for individual emissions units at LANL. LANL is located in an attainment area for all criteria pollutants. |

| Regulation  | Regulated Pollutants | Regulated Source Category  | Applicability   |
|---|----------------------|--|---|
| 20.2.80 NMAC<br>Stack Heights   | All                  | Sources Applying for Construction Permits under Parts 72, 74 or 79                           | N/A - The regulation does not specify requirements for individual emissions units at LANL.  |
| <b>20.2.82 NMAC<br/>Incorporating By Reference 40 CFR Part 63, Maximum Achievable Control Technology (MACT) Standards</b> |                      |  |   |
| Subpart A - General Provisions  | 112(b) HAPs          | All Categories with Standards Regulated under 40 CFR 63                                      | Applicable - However, this subpart applies only if specific source categories have had standards promulgated. Therefore, the Subpart A requirements are addressed under other subparts setting standards applicable to Laboratory sources. Subpart A is not separately covered in this application. |
| Subpart B - Requirements for Control Technology Determinations  | 112(b) HAPs          | Major Sources of HAPs  | N/A - LANL is not a major source of HAPs.   |
| Subpart D - Regulations Governing Compliance Extensions for Early Reduction of HAPs                                       | 112(b) HAPs          | A voluntary program for all sources subject to MACT wishing to obtain a compliance extension | N/A - LANL is not a major source of HAPs.   |

| <b>Regulation</b>  | <b>Regulated Pollutants</b> | <b>Regulated Source Category</b>  | <b>Applicability</b>  |
|--|-----------------------------|---|---|
| Subpart E -<br>Approval of State Program and<br>Delegation of Federal Authorities  | 112(b) HAPs                 | All sources affected<br>under Section 112   | N/A - This section establishes<br>procedures for approval of state rules and<br>programs to implement Section 112<br>requirements.                |
| Subpart F -<br>National Emission Standards of<br>Organic Hazardous Air Pollutants<br>from the SOCFI  | Organic HAPs                | Chemical<br>Manufacturing Process<br>Units  | N/A - LANL does not operate any<br>synthetic organic chemical<br>manufacturing operations.  |
| Subpart G -<br>National Emission Standards for<br>Organic Hazardous Air Pollutants<br>from SOCFI Process Vents, Storage<br>Vessels, Transfer Operations, and<br>Wastewater | Organic HAPs                | Process Vents, Storage<br>Vessels, Transfer<br>Racks, and Wastewater<br>Steams within a source<br>subject to 40 CFR 63<br>Subpart F | N/A - LANL does not operate any<br>synthetic organic chemical<br>manufacturing operations.  |
| Subpart H -<br>NESHAP for Organic Hazardous Air<br>Pollutants for Equipment Leaks  | Organic HAPs                | Pumps, Compressors,<br>Agitators, etc., in<br>Organic HAP Service<br>>300 hours/year  | N/A - The regulation only applies to a<br>facility that is subject to another subpart<br>of 40 CFR Part 63, and which references<br>this subpart. |
| Subpart I -<br>NESHAP for Certain Processes<br>Subject to the Negotiated Regulation<br>for Equipment Leaks   | 112(b) HAPs                 | Equipment Leaks at<br>Specified SOCFI<br>Sources  | N/A - LANL does not operate any<br>synthetic organic chemical<br>manufacturing operations.  |



| Regulation  | Regulated Pollutants | Regulated Source Category  | Applicability   |
|---|----------------------|--|---|
| Subpart L - NESHAP for Coke Oven Batteries  | 112(b) HAPs          | Coke Ovens   | N/A – LANL does not operate a coke oven battery.  |
| Subpart M - NESHAP for Perchloroethylene for Dry Cleaning Facilities  | Perchloroethylene    | Dry Cleaners   | N/A – LANL does not operate a dry cleaning facility.  |
| Subpart N -Standards for Chromium Emissions from Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks | Chromium             | Chromium Electroplating and Anodizing Tanks                        | N/A - LANL chromium electroplating operations are used for research and development purposes only. These activities are specifically exempt under 40 CFR 63.340(d). |
| Subpart O -Ethylene Oxide Emissions Standards for Sterilization Facilities  | Ethylene Oxide       | Sterilization Facilities   | N/A – LANL does not operate an ethylene oxide sterilization facility.   |
| Subpart Q -NESHAP for Industrial Process Cooling Towers   | Chromium             | Cooling Towers   | N/A - LANL does not use chromium-based chemicals to treat its cooling tower water.  |
| Subpart R - NESHAP for Gasoline Distribution Facilities   | 112(b) HAPs          | Bulk Gasoline Terminals<br>Terminals<br>Pipeline Breakout Stations | N/A – LANL does not operate a bulk gasoline terminal or pipeline breakout station.  |
| Subpart S -NESHAP for Pulp and Paper Industry   | 112(b) HAPs          | Pulp and Paper Industry  | N/A – LANL does not operate any process that produces pulp paper or paperboard.   |

| <b>Regulation</b>   | <b>Regulated Pollutants</b>   | <b>Regulated Source Category</b>                                  | <b>Applicability</b>   |
|---|-------------------------------|---|--|
| Subpart T – MACT for Halogenated Solvent Cleaning   | 6 listed halogenated solvents | Solvent cleaning machines with a capacity of 2 gallons or greater | Applicable – LANL operates 3 solvent cleaning machines with regulated solvents.                |
| Subpart U - National Emission Standards for Hazardous Air Pollutants Emissions: Group 1 Polymers and Resins | 112(b) HAPs                   | Elastomer Product Process Units                                   | N/A – LANL does not operate an elastomer product process unit.                                 |
| Subpart W - NESHAP for Epoxy Resins Production and Non-nylon Polyamides Production                          | 112(b) HAPs                   | Resin Manufacturers   | N/A – LANL does not operate a basic liquid epoxy or wet strength resin manufacturing facility. |
| Subpart X -NESHAP for Secondary Lead Smelting   | Lead Compounds                | Secondary Lead Smelting   | N/A – LANL does not operate a secondary lead smelter.  |
| Subpart Y - National Emission Standards for Marine Tank Vessel Loading Operations                           | 112(b) HAPs                   | Marine Tank Vessel Loading Operations                             | N/A – LANL does not operate a marine tank vessel loading operation.                            |
| Subpart AA -NESHAP for Phosphoric Acid Manufacturing Plants   | 112(b) HAPs                   | Phosphoric Acid Manufacturing Plants                              | N/A – LANL does not operate a phosphoric acid manufacturing operation.                         |
| Subpart BB -NESHAP for Phosphate Fertilizer Production Plants   | 112(b) HAPs                   | Fertilizer Production Plants                                      | N/A – LANL does not operate a fertilizer production plant.                                     |
| Subpart CC -NESHAP from Petroleum Refineries  | 112(b) HAPs                   | Petroleum Refineries  | N/A – LANL does not operate a petroleum refinery.  |
| Subpart DD -NESHAP from Off-Site Waste and Recovery Operations  | 112(b) HAPs                   | Off-Site Waste and Recovery Operations                            | N/A - LANL does not operate an off-site waste and recovery operation.                          |

| <b>Regulation</b>   | <b>Regulated Pollutants</b>                        | <b>Regulated Source Category</b>                          | <b>Applicability</b>   |
|---|--|---|--|
| Subpart EE -National Emission Standards for Magnetic Tape Manufacturing Operations  | 112(b) HAPs  | Magnetic Tape Manufacturing Operations                    | N/A – LANL does not operate a magnetic tape manufacturing operation.   |
| Subpart GG - National Emission Standards for Aerospace Manufacturing and Rework Facilities                                    | 112(b) HAPs  | Manufacture or rework of aerospace vehicles or components | N/A - Research and development activities are exempt from the requirements of this regulation, per 40 CFR 63.741(f). |
| Subpart HH - NESHAP for Oil and Natural Gas Production Facilities   | 112(b) HAPs  | Fuel Production Facilities                                | N/A – LANL does not operate a gas production facility.   |
| Subpart II - National Emission Standards for Shipbuilding and Ship Repair (Surface Coating)                                   | 112(b) HAPs  | Shipbuilding and Ship Repair                              | N/A – LANL does not operate a shipbuilding and repair facility.  |
| Subpart JJ - National Emission Standards for Wood Furniture Manufacturing Operations  | 112(b) HAPs  | Wood Furniture Manufacturing                              | N/A – LANL does not operate a wood furniture manufacturing operation.  |
| Subpart KK - National Emission Standards for the Printing and Publishing Industry   | 112(b) HAPs  | Printing and Publishing Industry                          | N/A – LANL does not operate a printing and publishing operation.   |
| Subpart LL - NESHAP for Primary Aluminum Reduction Plants   | Aluminum<br>Polycyclic Organic Matter<br>Fluorides | Primary Aluminum Reduction Plants                         | N/A – LANL does not operate a primary aluminum reduction plant.  |
| Subpart MM – NESHAP for Chemical Recovery Combustion Sources at Kraft, Soda, Sulfite, and Stand-alone Semichemical Pulp Mills | 112(b) HAPs  | Pulp Mills  | N/A – LANL does not operate a pulp mill.   |

| <b>Regulation</b>   | <b>Regulated Pollutants</b> | <b>Regulated Source Category</b> | <b>Applicability</b>   |
|---|-----------------------------|----------------------------------|--|
| Subpart OO - National Emission Standards for Tanks - Level 1  | 112(b) HAPs                 | Tanks                            | N/A –The regulation only applies to a facility that is subject to another subpart of 40 CFR 60, 61 or 63, and that references this subpart.  |
| Subpart PP - National Emission Standards for Containers   | 112(b) HAPs                 | Containers                       | N/A –The regulation only applies to a facility that is subject to another subpart of 40 CFR 60, 61 or 63, and that references this subpart.  |
| Subpart QQ - National Emission Standards for Surface Impoundments   | 112(b) HAPs                 | Surface Impoundments             | N/A –The regulation only applies to a facility that is subject to another subpart of 40 CFR 60, 61 or 63, and that references this subpart.  |
| Subpart RR - National Emission Standards for Individual Drain Systems   | 112(b) HAPs                 | Drain Systems                    | N/A –The regulation only applies to a facility that is subject to another subpart of 40 CFR 60, 61 or 63, and that references this subpart.  |
| Subpart SS - National Emission Standards for Closed Vent Systems, Control Devices, and Recovery Devices and Routing to a Fuel Gas System or a Process | VOCs<br>112(b) HAPs         | Fuel Gas Systems                 | N/A –The regulation only applies to a facility that is subject to another subpart of 40 CFR 60, 61 or 63, and that references this subpart.  |
| Subpart TT - National Emission Standards for Equipment Leaks – Control Level 1  | VOCs<br>112(b) HAPs         | Equipment Leaks                  | N/A –The regulation only applies to a facility that is subject to another subpart of 40 CFR 60, 61, or 63, and that references this subpart. |

| Regulation   | Regulated Pollutants | Regulated Source Category   | Applicability  |
|--|----------------------|---|--|
| Subpart UU - National Emission Standards for Equipment Leaks – Control Level 2 Standards                 | VOCs<br>112(b) HAPs  | Equipment Leaks   | N/A –The regulation only applies to a facility that is subject to another subpart of 40 CFR 60, 61, or 63, and that references this subpart. |
| Subpart VV - National Emission Standards for Oil- Water Separators and Organic-Water Separators          | 112(b) HAPs          | Oil- Water Separators and Organic-Water Separators  | N/A –The regulation only applies to a facility that is subject to another subpart of 40 CFR 60, 61 or 63, and that references this subpart.  |
| Subpart WW - National Emission Standards for Storage Vessels (Tanks) - Control Level 2                   | 112(b) HAPs          | Storage Vessels   | N/A –The regulation only applies to a facility that is subject to another subpart of 40 CFR 60, 61, or 63, and that references this subpart. |
| Subpart YY - NESHAP for Source Categories: Generic Maximum Achievable Control Technology Standards       | 112(b) HAPs          | Acetal Resins Production, Acrylic and Modacrylic Fibers Production, Hydrogen Fluoride Production , and Polycarbonate Production | N/A – LANL does not have any of the listed source operations.  |
| Subpart CCC - NESHAP for Steel Pickling-HCl Process Facilities and Hydrochloric Acid Regeneration Plants | 112(b) HAPs          | Steel Pickling Facilities and Hydrochloric Acid Regeneration Plants   | N/A – LANL does not operate a steel pickling facility or a hydrochloric acid regeneration plant.   |
| Subpart DDD - NESHAP for Mineral Wool Production   | 112(b) HAPs          | Mineral Wool Production   | N/A – LANL does not operate a mineral wool production facility   |

| Regulation  | Regulated Pollutants   | Regulated Source Category             | Applicability   |
|---|--|---------------------------------------|---|
| Subpart EEE - NESHAP from Hazardous Waste Combustors                      | Dioxins/furans<br>112(b) HAPs<br>Carbon Monoxide<br>Hydrocarbons<br>PM | Hazardous Waste Combustors            | N/A – LANL does not operate a hazardous waste combustor.                      |
| Subpart GGG - National Emissions Standards for Pharmaceuticals Production | 112(b) HAPs  | Pharmaceuticals Production            | N/A – LANL does not operate a pharmaceutical production facility.             |
| Subpart HHH - NESHAP for Natural Gas Transmission and Storage Facilities  | 112(b) HAPs  | Natural Gas Transmission Facilities   | N/A – LANL does not operate a natural gas transmission facility.              |
| Subpart III - NESHAP for Flexible Polyurethane Foam Production            | 112(b) HAPs  | Flexible Polyurethane Foam Production | N/A – LANL does not operate a flexible polyurethane foam production facility. |
| Subpart JJJ - NESHAP for Group IV Polymers and Resins                     | 112(b) HAPs  | Thermoplastic Product Process Units   | N/A – LANL does not operate a thermoplastic product process unit.             |
| Subpart LLL - NESHAP for Portland Cement Manufacturing Industry           | PM<br>Opacity<br>Dioxins/furans<br>Total hydrocarbons                  | Portland Cement Plants                | N/A – LANL does not operate a Portland cement plant.                          |
| Subpart MMM - NESHAP for Pesticide Active Ingredient Production           | 112(b) HAPs<br>VOCs  | Pesticide Manufacturing               | N/A – LANL does not operate a pesticide manufacturing operation.              |

| <b>Regulation</b>   | <b>Regulated Pollutants</b> | <b>Regulated Source Category</b> | <b>Applicability</b>  |
|---|-----------------------------|----------------------------------|---|
| Subpart NNN - NESHAP for Wool Fiberglass Manufacturing  | 112(b) HAPs                 | Wool Fiberglass Manufacturing    | N/A – LANL does not operate a wool fiberglass manufacturing facility.   |
| Subpart OOO - NESHAP for Manufacture of Amino/Phenolic Resins   | 112(b) HAPs                 | Amino/Phenolic Resin Productions | N/A – LANL does not operate a amino/phenolic resin production facility. |
| Subpart PPP - NESHAP for Polyether Polyols Production   | 112(b) HAPs                 | Polyether Polyols Production     | N/A – LANL does not operate a polyether polyols production facility.    |
| Subpart QQQ – NESHAP for Primary Copper Smelters  | 112(b) HAPs                 | Primary Copper Smelting          | N/A – LANL does not operate a primary copper smelter.                   |
| Subpart RRR - NESHAP for Secondary Aluminum Production  | 112(b) HAPs                 | Secondary Aluminum Production    | N/A – LANL does not operate a secondary aluminum production facility.   |
| Subpart TTT - NESHAP for Primary Lead Smelting  | Lead                        | Primary Lead Smelting            | N/A - LANL does not operate a primary lead smelter.                     |
| Subpart UUU – NESHAP for Petroleum Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units | 112(b) HAPs                 | Petroleum Refineries             | N/A – LANL does not operate a petroleum refinery.                       |
| Subpart VVV – NESHAP for Publicly Owned Treatment Works   | 112(b) HAPs                 | Publicly Owned Treatment Works   | N/A – LANL does not operate a POTW.                                     |
| Subpart XXX - NESHAP for Ferroalloys Production: Ferromanganese and Silicomanganese   | 112(b) HAPs<br>Opacity      | Ferroalloys Production           | N/A – LANL does not operate a ferroalloys production operation.         |

| <b>Regulation</b>  | <b>Regulated Pollutants</b>        | <b>Regulated Source Category</b>                     | <b>Applicability</b>  |
|--|------------------------------------|--|---|
| Subpart CCCC – NESHAP for Manufacture of Nutritional Yeast                                   | 112(b) HAPs<br>VOCs                | Nutritional Yeast Manufacturing                      | N/A – LANL does not operate a nutritional yeast manufacturing operation.  |
| Subpart GGGG – NESHAP for Solvent Extraction for Vegetable Oil Production                    | 112(b) HAPs                        | Vegetable Oil Production                             | N/A – LANL does not operate a vegetable oil production operation.   |
| Subpart HHHH – NESHAP for Wet-Formed Fiberglass Mat Production                               | 112(b) HAPs                        | Wet-Formed Fiberglass Production                     | N/A – LANL does not operate a wet-formed fiberglass production operation.   |
| Subpart SSSS – NESHAP for Surface Coating of Metal Coil                                      | 112(b) HAPs                        | Metal Coil Surface Coating Operations                | N/A – LANL does not operate a metal coil surface coating operation.   |
| Subpart TTTT – NESHAP for Leather Finishing Operations                                       | 112(b) HAPs                        | Leather Finishing Operations                         | N/A – LANL does not operate a leather finishing operation.  |
| Subpart UUUU – NESHAP for Cellulose Products Manufacturing                                   | 112(b) HAPs                        | Cellulose Products Manufacturing                     | N/A – LANL does not operate a cellulose products manufacturing operation.   |
| Subpart VVVV – NESHAP for Boat Manufacturing   | 112(b) HAPs                        | Fiberglass and Aluminum Boat Manufacturing           | N/A – LANL does not operate a fiberglass or aluminum boat manufacturing operation.  |
| 20.2.84 NMAC – incorporating 40 CFR Parts 72, 73, 74, 75, 76, 77, and 78 – Acid Rain Program | SO <sub>2</sub><br>NO <sub>x</sub> | Sources Affected under the Federal Acid Rain Program | N/A – The only existing boilers at LANL that generate electricity are at TA-03. None of these units are affected sources under the Acid Rain Program. |



| Regulation  | Regulated Pollutants | Regulated Source Category  | Applicability  |
|---|----------------------|--|--|
| 20.2.98 NMAC<br>Conformity of General Federal Actions to the State Implementation Plan                      | Criteria Pollutants  | Federal Facilities in Nonattainment or Maintenance Areas   | N/A - This regulation applies only to federal facilities located in nonattainment or maintenance areas. LANL is located in an attainment area.   |
| 20.2.99 NMAC<br>Conformity to the State Implementation Plan of Transportation Plans, Programs, and Projects | Criteria Pollutants  | Federal Transportation Agencies  | N/A - This regulation applies only to federal transportation agencies and their planning activities in nonattainment and maintenance areas.  |
| <b>Federal Applicable Requirements Not Adopted in EIB Regulations</b>                                       |                      |  |  |
| 40 CFR Part 50 – National Primary and Secondary Ambient Air Quality Standards                               | Criteria Pollutants  | All  | Applicable – 20 NMAC 2.70 includes NAAQS as an applicable requirement. All LANL operations are located within an area designated attainment for all NAAQS primary and secondary standards. |
| 40 CFR 60 Subpart AAA - NSPS for New Residential Wood Heaters   | PM                   | Residential Wood Heaters Manufactured after July 1, 1988, or Sold at Retail on or after July 1, 1990 | N/A – LANL does not operate any residential wood heaters.  |

| Regulation  | Regulated Pollutants | Regulated Source Category   | Applicability   |
|---|----------------------|---|---|
| 40 CFR 61 Subpart B - NESHAP for Radon Emissions from Underground Uranium Mines   | Radon                | Underground Uranium Mines   | N/A – LANL does not operate an underground uranium mine.                |
| 40 CFR 61 Subpart H - NESHAP for Radionuclides other than Radon from DOE Facilities   | Radionuclides        | Department of Energy Facilities   | Applicable - LANL is subject to 40 CFR 61, Subpart H.                   |
| 40 CFR 61 Subpart I - NESHAP for Radionuclide Emissions from Federal Facilities Other Than Nuclear Regulatory Commission (NRC) Licensees and Not Covered by Subpart H | Radionuclides        | Federal Facilities not Licensed by the NRC and Not Covered by Subpart H | N/A - LANL is covered by Subpart H.                                     |
| 40 CFR 61, Subpart K -NESHAP for Radionuclide Emissions from Elemental Phosphorus Plants  | Radionuclides        | Elemental Phosphorous Plants  | N/A – LANL does not operate an elemental phosphorous plant.             |
| 40 CFR 61, Subpart Q -NESHAP for Radon Emissions from DOE Facilities  | Radon-222            | DOE Facilities Storing By-product Materials                             | Applicable – LANL is subject to 40 CFR 61, Subpart Q.                   |
| 40 CFR 61, Subpart R -NESHAP for Radon Emissions From Phosphogypsum Stacks  | Radon-222            | Wet Acid Phosphorus Production Facilities                               | N/A – LANL does not operate a wet acid phosphorous production facility. |

| Regulation  | Regulated Pollutants   | Regulated Source Category  | Applicability  |
|---|--|--|--|
| 40 CFR 61, Subpart T - NESHAP for Radon Emissions from the Disposal of Uranium Mill Tailings                          | Radon  | Uranium Mill Tailings  | N/A – LANL does not operate a unit that disposes of uranium mill tailings.   |
| 40 CFR 61, Subpart W -NESHAP for Radon Emissions from Operating Mill Tailings   | Radon-222  | Uranium Mills  | N/A - LANL does not operate a uranium mill tailings unit.  |
| 40 CFR 62 Subpart GG - Approval and Promulgation of State Plans for Designated Facilities and Pollutants – New Mexico | Fluoride<br>Reduced Sulfur<br>Sulfuric Acid Mist<br>Landfill Gas<br>Emissions<br>Municipal Waste<br>Combustor<br>Emissions | Kerr-McGee Nuclear Corp in McKinley County<br>Climax Chemical in Lea County<br>Municipal Waste Landfills   | N/A – LANL does not operate any of the identified facilities.  |
| 40 CFR 64 Compliance Assurance Monitoring   | Criteria HAPs  | Emission units with potential pre-controlled emission rate > 100% of 40 CFR 70 major source threshold, equipped with a control device, and subject to an emission limit or standard. | Applicable – The three power plant boilers controlled with an FGR system are each subject to the rule for NO <sub>x</sub> only. A monitoring plan for NO <sub>x</sub> will be submitted as specified at 40 CFR 64.5 (b) within the application for the first operating permit renewal. |

| <b>Regulation</b>  | <b>Regulated Pollutants</b>                                     | <b>Regulated Source Category</b>   | <b>Applicability</b>  |
|--|---|--|---|
| 40 CFR 68 – Chemical Accident Prevention Provisions                              | 112(r) regulated substances                                     | All  | N/A - LANL does not store quantities of 112(r) toxic or flammable materials in quantities above the thresholds for triggering applicability of this regulation. |
| 40 CFR 82 Subpart A - Production and Consumption Controls                        | Chlorofluorocarbons (CFCs) and Hydrochlorofluorocarbons (HCFCs) | Manufacturers of CFCs and HCFCs  | N/A - LANL uses, but does not manufacture, CFCs or HCFCs.   |
| 40 CFR 82 Subpart B - Servicing of Motor Vehicle Air Conditioners                | CFCs and HCFCs  | Repair and Service of Motor Vehicle Air Conditioners                     | Applicable  |
| 40 CFR 82 Subpart C - Ban on Nonessential Products Containing Class I Substances | CFCs and HCFCs  | Non-essential Products   | N/A   |
| 40 CFR 82 Subpart D - Federal Procurement  | CFCs and HCFCs  | General Services Department of Defense                                   | N/A   |
| 40 CFR 82 Subpart E - Labeling of Products using ODSs                            | CFCs and HCFCs  | Containers filled with CFCs or HCFCs and products manufactured with CFCs | N/A   |

| <b>Regulation</b>   | <b>Regulated Pollutants</b> | <b>Regulated Source Category</b>       | <b>Applicability</b> |
|---|-----------------------------|--|----------------------|
| 40 CFR 82 Subpart F - Recycling and Emission Reduction    | CFCs and HCFCs              | Stationary Refrigeration Appliances    | Applicable           |
| 40 CFR 82 Subpart G - Significant New Alternatives Policy | CFCs and HCFCs              | Sources using Class I or Class II ODSs | N/A                  |
| 40 CFR 82 Subpart H – Halon Emissions Reduction           | Halons                      | Halon Containing Equipment             | Applicable           |

(1) These regulations are not in the SIP and are not federally enforceable

Table 4.1-2 provides a list of each applicable requirement that currently applies to LANL. For each requirement cited, the table indicates whether or not the regulation is federally enforceable. The NMED operating permit regulation requires each Title V permit to specify which requirements are federally enforceable. The table also shows whether the requirement applies to the entire LANL facility, i.e., is a facility-wide requirement, or to an emission unit or units, i.e., a unit-specific requirement. Additional information, including proposed monitoring, recordkeeping, and reporting, for sources subject to unit-specific requirements is provided in Chapter 3 of this application.

**Table 4.1-2. Current Applicable Requirements for LANL**

| <b>Applicable Requirement</b>  | <b>Federally Enforceable?</b> | <b>Facility-wide Requirement?</b> | <b>Unit-specific Requirement?</b>  |
|--|-------------------------------|-----------------------------------|--|
| 20.2.7 NMAC - Excess Emissions during Malfunction, Startup, Shutdown, or Scheduled Maintenance | Yes                           | Yes                               | No   |
| 20.2.11 NMAC - Asphalt Process Equipment   | Yes                           | No                                | Yes. Applicable to existing Barber-Greene and new BDM Engineering asphalt plants.  |
| 20.2.33 NMAC - Gas Burning Equipment - NO <sub>2</sub>   | Yes                           | No                                | Yes. Applicable to (3) boilers at TA-3 Power Plant.  |
| 20.2.34 NMAC - Oil Burning Equipment - NO <sub>2</sub>   | Yes                           | No                                | Yes. Applicable to (3) boilers at TA-3 Power Plant.  |
| 20.2.60 NMAC - Open Burning  | Yes                           | Yes                               | Yes. Applicable to (3) air curtain destructors and operational burns.  |
| 20.2.61 NMAC - Smoke and Visible Emissions   | Yes                           | Yes                               | Yes. Applicable to certain combustion sources as described in Chapter 3.   |
| 20.2.70 NMAC - Operating Permits   | Yes                           | Yes                               | No   |
| 20.2.71 NMAC - Operating Permit Emission Fees  | Yes                           | Yes                               | No   |
| 20.2.72 NMAC - Construction Permits  | Yes                           | Yes                               | No   |
| 20.2.72 NMAC Permit Conditions   | Yes                           | No                                | Yes. Current 20.2.72 permits have been issued for beryllium activities, a portable rock crusher, the flue gas recirculation NO <sub>x</sub> control project at the TA-3 Power Plant, an asphalt plant, and a diesel generator. |
| 20.2.73 NMAC - Notice of Intent and Emissions Inventory Requirements                           | Yes                           | Yes                               | No   |
| 20.2.74 NMAC - Permits - Prevention of Significant Deterioration                               | Yes                           | Yes                               | No   |
| 20.2.75 NMAC - Construction Permit Fees  | Yes                           | Yes                               | No   |
| 40 CFR Part 50 – National Primary and Secondary Ambient Air Quality Standards                  | Yes                           | Yes                               | No   |

| <b>Applicable Requirement</b>   | <b>Federally Enforceable?</b> | <b>Facility-wide Requirement?</b> | <b>Unit-specific Requirement?</b>  |
|---|-------------------------------|-----------------------------------|--|
| 40 CFR Part 60 - Subpart Dc - NSPS for Small Industrial-Commercial-Institutional Steam Generating Units | Yes                           | No                                | Yes. Applicable to (2) 12.4 MMBtu/hr boilers at TA-55.                                       |
| 40 CFR Part 60 – Subpart I - NSPS for Hot Mix Asphalt Facilities  | Yes                           | No                                | Yes. Applicable to the BDM Engineering asphalt plant.  |
| 40 CFR Part 60 - Subpart Kb - NSPS for Volatile Organic Liquid Storage Vessels                          | Yes                           | No                                | Yes. Applicable to each storage tank listed in Table 3.14-2 of this application.             |
| 40 CFR Part 60 - Subpart CCCC - NSPS for Commercial and Industrial Solid Waste Incineration Units       | Yes                           | No                                | Yes. Applicable to (3) air curtain destructors described in Section 3.1 of this application. |
| 40 CFR Part 61 - Subpart C - NESHAP for Beryllium   | Yes                           | No                                | Yes. Applicable to beryllium operations as described in Section 3.3 of this application.     |
| 40 CFR 61- Subpart H - NESHAP for Radionuclides other than Radon from DOE Facilities                    | Yes                           | Yes                               | No   |
| 40 CFR Part 61 - Subpart M - NESHAP for Asbestos  | Yes                           | Yes                               | No   |
| 40 CFR 61 – Subpart Q - NESHAP for Radon Emissions from DOE Facilities                                  | Yes                           | Yes                               | No   |
| 40 CFR Part 63 - Subpart T - MACT for Halogenated Solvent Cleaning                                      | Yes                           | No                                | Yes. Applicable to (3) degreasers described in Section 3.7 of this application.              |
| 40 CFR 64 – Compliance Assurance Monitoring   | Yes                           | No                                | Yes. Applicable to (3) boilers at TA-3 Power Plant.  |
| 40 CFR 82 – Subpart B - Servicing of Motor Vehicle Air Conditioners                                     | Yes                           | Yes                               | No   |
| 40 CFR 82 – Subpart F - Recycling and Emission Reduction  | Yes                           | Yes                               | No   |
| 40 CFR 82 – Subpart H – Halon Emissions Reduction   | Yes                           | Yes                               | No   |



#### **4.1.1. 20.2.7 NMAC - Excess Emissions during Malfunction, Startup, Shutdown, or Scheduled Maintenance**

This regulation requires notification to the NMED in the event of the occurrence of excess emissions during a malfunction, startup, shutdown, or scheduled maintenance. “*Excess emissions*” is defined as the emission of air contaminants in excess of an applicable emission limitation or requirement. This includes emission limitations established through permit conditions or by NMED air quality regulation, such as the opacity standards in 20.2.61 NMAC, which apply to boilers, generators, rock crushers, and air curtain destructors at LANL.

If notification is triggered, a verbal notification is required no later than 24 hours after the start of the next regular business day followed by a written notification within 10 days after the start of the next business day. Notification of excess emissions due to scheduled maintenance must be done verbally no later than 24 hours prior to the initial occurrence of the excess emissions and followed by a written notification. The rule specifies information to be included in the notification. The rule also specifies criteria that the NMED must use to determine whether or not a violation has occurred due to the excess emission during the limited circumstances of startup, shutdown, malfunction, or scheduled maintenance.

LANL provides notifications as required under 20.2.7 NMAC when excess emissions occur. Notifications in the past have been primarily for excursions over opacity limits, i.e., the degree to which an exhaust plume is visible to the human eye. LANL has complied with the requirements of this rule.

#### **4.1.2. 20.2.11 NMAC - Asphalt Process Equipment**

This regulation specifies an allowable particulate matter emission rate in pounds per hour. It also requires the use of a fugitive dust control system so that all particulate matter emissions are limited to the stack outlet.

The maximum asphalt production rate of the Barber-Green asphalt plant at TA-3-73 is 60 tons per hour (120,000 pounds per hour). This process rate equates to an allowable emission rate of 33.8 pounds per hour. A source test was conducted on this plant on August 25, 1993 and is included in Appendix C. As shown in the test report, the particulate matter emission rate at maximum capacity is 4 pounds per hour, well below the allowable emission limit of 33.8 pounds per hour. The plant also has a control system for fugitive dust, which ensures emissions are limited to the stack outlet. Therefore, the plant is in compliance with 20.2.11 NMAC.

The new BDM Engineering asphalt plant is limited to 35.4 pounds per hour of particulate matter under this regulation. A source test for particulate matter will be conducted once the plant is operational.

#### **4.1.3. 20.2.33 NMAC - Gas Burning Equipment - NO<sub>2</sub>**

This regulation applies to the three boilers at the TA-3 Power Plant described in Section 3.10 of this application. Each boiler has a nameplate rating of 210 MMBtu/hr heat input. These units are the only boilers at LANL large enough to meet the applicability criteria of the regulation, which is a heat input of greater than 1,000,000 MMBtu per year. Because the boilers were installed in the 1950's, they meet the definition of "existing gas burning equipment" within the regulation. The regulation specifies an emission limit of no greater than 0.3 pounds of nitrogen dioxide per MMBtu of heat input.

LANL conducted two source tests on Boiler 3, which are included in Appendix D. Each test was conducted prior to installation of the flue gas recirculation (FGR) system designed to lower nitrogen dioxide emissions. The August 1995 test report showed the nitrogen dioxide emission rate to be 0.136 lb/MMBtu at full load. The February 2000 test showed the nitrogen dioxide emission rate to be 0.187 lb/MMBtu. The test results show Boiler 3 is in compliance with 20.2.33 NMAC without the FGR control system. It is anticipated Boilers 1 and 2, having the same design rate and burning the same fuel as  
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Boiler 3, also have nitrogen dioxide emission rates below the 0.3 lb/MMBtu limit.

#### 4.1.4. 20.2.34 NMAC - Oil Burning Equipment - NO<sub>2</sub>

This regulation also applies to the three boilers at the TA-3 Power Plant described in Section 3.10 of this application. These units are the only boilers at LANL large enough to meet the applicability criteria of the regulation, which is a heat input of greater than 1,000,000 MMBtu per year. The regulation specifies an emission limit of no greater than 0.3 pounds of nitrogen dioxide per MMBtu of heat input for each boiler meeting the heat input criteria.

The TA-3 Power Plant boilers have the capability to use No. 2 fuel oil as a standby fuel. Emission tests are not typically conducted on standby fuels, which are used infrequently, so emission testing at the plant has been conducted on natural gas only. However, using the AP-42 emission factor and fuel oil heat value from Table 3.10-2 in the Section 3.10 TA-3 Power Plant emission unit description, compliance with the emission limit can be demonstrated by the following calculation:

$$Emission\ Rate\left(\frac{lb}{MMBtu}\right) = \left[ Emission\ Factor\left(\frac{24\ lbNO_x}{1000\ gal\ oil}\right) \right] \left[ Oil\ Heat\ Value\left(\frac{gal}{0.137\ MMBtu}\right) \right] = 0.18\ \frac{lbNO_x}{MMBtu}$$

#### 4.1.5. 20.2.60 NMAC - Open Burning

20.2.60 NMAC - Open Burning prohibits certain types of burning, allows certain unrestricted burning, allows restricted open burning of refuse and agricultural materials without permitting, and requires permitting, i.e., issuance of an open burn permit for other activities. Open burning activities at LANL fall under either unrestricted burning or the open burn permitting program.

Section 108.C. of 20.2.60 NMAC allows the unrestricted open burning of explosive materials where the transportation of such materials to other facilities could be dangerous. Sites at LANL that conduct burning of pure explosive material fall under this

exemption to 20.2.60 NMAC. Under the operating permit requirements, each of these sites meet the criteria of Insignificant Activity #1.a.

The current open burn permit issued to LANL is for a five year period from August 18, 1997 to December 21, 2002. Two updated open permit applications are being prepared and will be submitted to NMED prior to expiration of the current permit. The open burn permitting process is separate and distinct from the new source review or construction permit processes under NMED permit regulations 20.2.72 NMAC, 20.2.73 NMAC, and 20.2.74 NMAC. The following burn sites are included in open burn permits:

- TA-11 Fire Testing Area
- TA-14 Burn Cage
- TA-16 Burn Ground
- TA-36 Open Burn Area
- TA-36 Sled Track

Except for the requirements of 20.2.60 NMAC, each of these sites meet the criteria of Insignificant Activity #1.a, under the operating permit requirements.

LANL has complied with the 20.2.60 NMAC requirement to obtain an open burn permit for the disposal of dangerous materials. LANL also complies with open burn permit conditions. The current open burn permit requires the following conditions:

- Twenty-four (24) hour advance burn notification;
- Obtaining pre-approval of operational changes affecting burn conditions;
- Submittal of an annual fire activity report;
- Making Standard Operating Procedures (SOPs) available for inspection;
- Conducting burns on good dispersion days; and
- Ensuring NAAQS and NMAAQS are not violated.

Additional operation specific conditions are included in the current open burn permit. LANL demonstrates compliance with specific conditions of the burn in the

annual fire activity report submitted to NMED. The current permit expires at the end of 2002. The open burn permit conditions are subject to change when the new permits are issued.

At the direction of NMED, the three air curtain destructors described in Section 3.1 of this application are also permitted under 20.2.60 NMAC. The compliance status of these units is discussed in Section 4.1.15 of this Chapter.

#### **4.1.6. 20.2.61 NMAC - Smoke and Visible Emissions**

20.2.61 NMAC limits visible emissions, i.e., emissions detected by the human eye, from certain stationary combustion equipment and diesel-powered vehicles. The regulation limits opacity to less than 20%. At LANL, the opacity limit applies primarily to boilers, generators, and diesel-powered vehicles used for construction purposes. The rule also applies to the three air curtain destructors described in Chapter 3. However, the rule exempts all stationary equipment that is subject to any other particulate emission limit under other NMED regulations, and all equipment that is classified as an insignificant activity under the Title V operating permit program. Emissions from the cold engine start-up from diesel-powered vehicles are also exempt.

LANL has found that opacity violations do not occur during normal operation of the stationary combustion units, cold startup on natural gas, or when natural gas is switched to fuel oil for “hot” boilers. However, exceedances can occur during cold startup on fuel oil or during malfunctions of the Power or Steam Plants. Therefore, opacity readings are made in accordance with the EPA standard method for opacity from 40 CFR Part 60, Appendix A, Method 9 during these occurrences. Opacity is read during each scheduled cold startup on fuel oil. During malfunctions where visible smoke is produced, a certified opacity observer reads the opacity as soon as possible.

LANL maintains a number of diesel-powered vehicles for construction purposes. No opacity violations have been reported during warm engine operation of these vehicles. Rather than having a program to read opacity on these vehicles, LANL has maintenance

programs that follow manufacturer's recommendations to ensure that vehicles are running efficiently.

LANL complies with the requirements of 20.2.60 NMAC during routine operations and has a program in place to conduct opacity observations during non-routine operations of stationary equipment that could generate visible emissions.

#### **4.1.7. 20.2.70 NMAC - Operating Permits**

20.2.70 NMAC requires the owner or operator of a major stationary source to apply for and obtain a Title V operating permit. LANL is a major stationary source and submitted an operating permit application as required in December 1995. The application was ruled complete by the NMED in April 1996. This application is a comprehensive replacement to the initial 1995 application. LANL has complied with 20.2.70 NMAC.

#### **4.1.8. 20.2.71 NMAC - Operating Permit Emission Fees**

This regulation requires Part 70 sources to pay an annual operating permit fee. LANL has paid the annual fee as required and is in compliance with this regulation.

#### **4.1.9. 20.2.72 NMAC - Construction Permits**

20.2.72 requires construction permits for new or modified sources that exceed specified emission rates for criteria or NMED-regulated pollutants, and sources subject to NSPS or NESHAP regulations. LANL has obtained construction permits as required by this regulation and currently has permits for beryllium machining, the FGR system at the TA-3 Power Plant, a portable rock crusher, an asphalt plant, and a diesel generator. Each source and permit is described in Chapter 3 of this application. LANL has also filed administrative permit revisions for small exempt operations under Section 202.B of the regulation. LANL has complied with the requirements of 20.2.72 NMAC.

#### 4.1.10. 20.2.72 NMAC - Permit Conditions

LANL currently has air quality construction permits issued under 20.2.72 NMAC for beryllium activities, a portable rock crusher, the FGR NO<sub>x</sub> control project at the TA-3 Power Plant, an asphalt plant, and a diesel generator. Permit revisions for small exempted sources have also been issued by NMED under the provisions of Section 202.B of 20.2.72 NMAC. Only the compliance status of current non-exempt emission units is discussed. Compliance with permit conditions for beryllium activities is discussed in Section 4.1.19 of this Chapter.

LANL was issued Permit No. 2195 on June 16, 1999 for a 150 ton per hour portable rock crusher described in Section 3.12 of this application. The crusher is intended to be used intermittently to crush concrete and rock removed from buildings as part of decontamination and decommissioning activities. At the time of this application, the crusher has not yet operated. Once operation begins, initial compliance tests are required to verify compliance with opacity limits specified in the permit. Therefore, compliance has not yet been determined for this source. It is anticipated control measures in place for fugitive particulate emissions will ensure opacity limits are met.

LANL was issued Permit No. 2195B on September 27, 2000 for the installation of an FGR system to control NO<sub>x</sub> emissions at the TA-3 Power Plant. The permit established hourly and annual emission limits for criteria pollutants, which are shown in Table 3.10-1 in Section 3.10 of this application. These emission limits became applicable once the FGR system became operational on October 1, 2002.

LANL conducted initial compliance testing required by the permit for NO<sub>x</sub> and CO on September 25<sup>th</sup> through 27<sup>th</sup>, 2002. Test results showed compliance with all permit limits except for NO<sub>x</sub> emissions from Boiler 3. Permit 2195B was revised in November 2002 to adjust the NO<sub>x</sub> limit for this unit from 9.0 to 9.9 pounds NO<sub>x</sub> per hour.

At the time of this application, the permitted asphalt plant and diesel generator were in initial startup. Compliance will be demonstrated as required by permit conditions.

**4.1.11. 20.2.73 NMAC - Notice of Intent and Emissions Inventory Requirements**

This regulation contains two separate requirements. A Notice of Intent (NOI) application is required to be submitted prior to construction of a new source or modification of an existing source if specified emission rates are exceeded for regulated air contaminants. NMED reviews the application and determines if a construction permit is needed for the new or revised source. LANL has submitted NOI applications when this requirement has been triggered and has complied with the regulation.

20.2.73 NMAC also requires submission of an annual emission inventory by specified sources within the state. LANL prepares this report each year and has complied with the regulation by submission of the required report. LANL has also voluntarily included information regarding HAP emissions when requested by the NMED in the annual report.

**4.1.12. 20.2.74 NMAC - Permits - Prevention of Significant Deterioration (PSD)**

20.2.74 NMAC implements the federal new source review requirements for areas of the state that are designated as being in attainment of NAAQS. PSD construction permits are required to construct new major stationary sources or make major modifications to existing sources. The definitions of major stationary source and major modification are specified within the regulation. This regulation and the requirement to obtain a PSD permit have not been triggered by modifications at LANL.

**4.1.13. 20.2.75 NMAC - Construction Permit Fees**

This regulation establishes fees for construction permits or permit revisions. A filing fee must be submitted with each application, and the NMED sends an invoice for the permit fee. Permit fees are specified based on the type of permit and technical complexity of review. LANL has submitted all fees as required for construction permits and is in compliance with this regulation



#### **4.1.14. 40 CFR Part 50 - National Primary and Secondary Ambient Air Quality Standards**

NAAQS are established by EPA for criteria pollutants in order to protect human health and welfare. NAAQS have been established for ozone, sulfur dioxide, nitrogen dioxide, particulate matter, carbon monoxide, and lead. The primary NAAQS are set at concentrations designed to be protective of human health. All areas of the country are designated as being in attainment or nonattainment of the primary NAAQS. States are required to develop revisions to their SIPs to bring nonattainment areas into attainment.

In developing requirements for state regulations implementing the Title V operating permit program, EPA chose not to specify the NAAQS as an applicable requirement except for temporary portable sources, which move to different locations. In developing 20.2.70 NMAC, NMED chose to be more stringent than required by EPA for an approvable Title V program and specified the NAAQS as an applicable requirement for all sources. However, recognizing the EIB or the NMED had reviewed dispersion modeling analyses and determined that many facilities in New Mexico did not cause or contribute to ambient air concentrations in excess of the NAAQS, 20.2.70 NMAC does not require additional modeling from sources that have been issued construction permits after January 1, 1986, or were subject to 20.2.14, 20.2.16, 20.2.19, 20.2.31 or 20.2.32 NMAC and were not modified since the modeling was performed. LANL has been issued several construction permits since this date. All dispersion modeling analyses included in construction permit applications for LANL have shown compliance with the NAAQS. In addition, LANL is located within a geographic area designated attainment for the NAAQS by the NMED and EPA. LANL operations do not cause or contribute to any violation of the NAAQS.

#### **4.1.15. 40 CFR Part 60 - Subpart Dc - NSPS for Small Industrial-Commercial-Institutional Steam Generating Units**

There are two boilers at LANL that are regulated under NSPS Subpart Dc. These are the two Sellers boilers with a design input rating of 12.4 MMBtu/hr which are located at TA-55 and which are discussed in Section 3.4 of this application. For gas-fired boilers of this size, Subpart Dc does not establish any emission standards. The only requirement is to measure and record the amount of natural gas consumed as fuel. The rule requires daily fuel monitoring. NMED approved an alternate monitoring plan that requires monthly fuel monitoring. A flow meter is used to measure fuel usage and monthly values are recorded as required. LANL is in compliance with the requirements of this regulation.

#### **4.1.16. 40 CFR Part 60 - Subpart I - NSPS for Hot Mix Asphalt Facilities**

The NSPS Subpart I applies to the BDM Engineering asphalt plant. The emission standard of Subpart I limits particulate matter to 0.04 grains per dry standard cubic foot. At the time of this application, the plant was in initial startup. A source test will be conducted as required by the NSPS to demonstrate compliance.

#### **4.1.17. 40 CFR Part 60 - Subpart Kb - NSPS for Volatile Organic Liquid Storage Vessels**

There are 15 storage tanks at LANL that are regulated by the NSPS Subpart Kb. Each tank is listed in Table 3.14-2 of this application. Under Subpart Kb, requirements for the installation of control equipment are based on the design capacity of the tank and the vapor pressure of the stored liquid. All liquids stored in Subpart Kb regulated tanks have very low vapor pressures, and therefore are not subject to any control requirement or standard under the rule. The only applicable requirement under the NSPS that applies to LANL storage tanks is the requirement at §60.116b(b) to maintain a record of the dimensions and capacity of each tank. LANL maintains these records and is in compliance with Subpart Kb.

#### **4.1.18. 40 CFR Part 60 - Subpart CCCC NSPS for Commercial and Industrial Solid Waste Incineration Units**

LANL operates three air curtain destructors to burn wood and yard waste from operating areas to support fire mitigation efforts that are each subject to the NSPS Subpart CCCC. These units are described in Section 3.1 of this application. Subpart CCCC limits opacity to 10% during normal operation and 35% during startup within the first 30 minutes of operation.

Under the NSPS, an initial opacity test using EPA Method 9 is required no later than 180 days after initial startup. All three units initiated startup in the fall of 2001. Initial opacity tests were conducted in December 2001 and results submitted to NMED in January 2002. Test results showed the units were in compliance with the opacity standard. Following the initial test, an annual opacity test is also required. Annual opacity tests are scheduled for fall 2002, and a report will be submitted to the NMED in approximately December 2002. In addition to required testing, LANL also conducts unofficial opacity readings to assist operators in determining and establishing operating conditions that minimize smoke. All test results have shown the units are in compliance with Subpart CCCC.

#### **4.1.19. 40 CFR Part 61 - Subpart C - NESHAP for Beryllium**

There are several facilities at LANL that are subject to the NESHAP Subpart C for beryllium. Each source subject to Subpart C is described in Section 3.3 of this application. As described in Section 3.3, new or modified beryllium sources are required to obtain construction permits from NMED under the provisions of 20.2.72 NMAC. There are currently four active sites at LANL for which a construction permit was required due to applicability of the Subpart C NESHAP. These facilities are: the TA-3-141 Beryllium Test Facility, the TA-55-PF4 Plutonium Facility, the TA-35-213 Target Fabrication Facility, and the TA-3-102 Main Shops Facility.

The Subpart C emission standard limits beryllium emissions from each source to 10 grams (0.022 lb) of beryllium over a 24-hour period. As shown in Table 3.3-2 of this application, the allowable emission rates established in the construction permit for each

of the four permitted sites is less than 1 gram per 24-hour period for all four sites combined. An allowable annual emission limit was also established in the construction permit process for each site.

Subpart C and permit conditions require an initial startup emission test for each new or modified source. Emission tests have been completed for TA-3-141, TA-35-213, and TA-3-102, and the TA-55-PF4 south stack. All test results showed compliance with the permitted allowable emission limits and Subpart C emission standard. Operations vented to the north stack of TA-55-PF4 have not yet initiated startup.

The facility exhaust stack at TA-3-141 is also required to be equipped with a continuous emission monitor (CEM) to measure beryllium emissions. LANL is required to provide a quarterly report to NMED that describes the compliance status of the site with permitted allowable emission rates based on CEM data collected. CEM data collection began in 2001. All CEM measurements have shown compliance with permitted emission limits and the Subpart C emission standard.

#### **4.1.20. 40 CFR Part 61 - Subpart H - NESHAP for Radionuclides other than Radon from DOE Facilities**

LANL is an applicable source under 40 CFR 61, Subpart H - National Emissions Standard for Emissions of Radionuclides Other than Radon from Department of Energy Facilities. This regulation requires that LANL not cause any member of the public to receive more than 10 mrem/yr from airborne radionuclide emissions. The regulation also specifies the mechanisms that will be used to demonstrate this dose standard is not exceeded. NMED has neither requested nor obtained oversight of this regulation, therefore authority for its implementation remains with EPA.

In 1990, LANL notified EPA that it was unable to demonstrate compliance with all requirements of Subpart H. This notification was followed by a Notice of Non-

compliance (NON) and an on-site inspection by the EPA. Upon completion of this inspection, the EPA issued a second NON to the Laboratory.

LANL and EPA began negotiations for the development of a Federal Facility Compliance Agreement (FFCA) and Compliance Plan that would provide direction for LANL to come into compliance with the Subpart H requirements. These documents provided critical tools needed by LANL to demonstrate compliance, including approval for environmental monitoring of non-point sources. These negotiations were completed in 1997, and shortly thereafter LANL informed EPA that it was in compliance with the requirements of Subpart H, as implemented through the FFCA.

Since implementation of the FFCA was completed, LANL has continued to demonstrate compliance with Subpart H requirements, through submission of the annual report required under 40 CFR 61.94. All annual reports since implementation of the FFCA have demonstrated compliance with Subpart H standards.

In addition to this deliverable, LANL has several mechanisms in place to ensure continued compliance with the requirements. These mechanisms include stack sampling, ambient air sampling, periodic surveys of unmonitored release points, dose assessment, and periodic internal and external audits. The complete compliance program is documented in a quality assurance project plan maintained by LANL.

#### **4.1.21. 40 CFR Part 61 - Subpart M - NESHAP for Asbestos**

LANL performs asbestos renovation and demolition activities covered by NESHAP Subpart M, Section 61.145. Radioactively contaminated material is disposed of on-site in a designated radioactive asbestos burial area. Subpart M requirements at 61.154 for active waste disposal sites apply to this activity. Non-radioactive asbestos material is transported off-site to designated asbestos disposal areas. This disposal activity is regulated under Subpart M, Section 61.150. These Subpart M sections set numerous work practice standards for asbestos removal and disposal as well as

notification and recordkeeping requirements. LANL has an on-going successful asbestos program that undergoes NMED review and inspection. LANL is in compliance with applicable Subpart M requirements.

#### **4.1.22. 40 CFR Part 61 - Subpart Q - NESHAP for Radon Emissions from DOE Facilities**

NMED has not requested delegation of the Subpart Q NESHAP. Therefore, the responsibility for administering this regulation resides with EPA. This regulation applies to radon-222 (Rn-222) emissions from DOE storage/disposal facilities that contain byproduct material, as defined under section 11.e(2) of the Atomic Energy Act of 1954. "Byproduct material" is the tailings or wastes produced by the extraction or concentration of uranium or thorium from ore. While this regulation targets uranium mills, LANL has likely stored small amounts of byproduct material used in experiments in the TA-54 low level waste (LLW) disposal facility, making LANL subject to this regulation. Subject facilities cannot exceed an emissions rate of 20 picocuries per square meter per second ( $\text{pCi}/\text{m}^2/\text{sec}$ ) of Rn-222.

Because the regulation provides no guidance on how compliance should be demonstrated, DOE and EPA negotiated a method in an April 5, 1995, DOE memorandum entitled "Memorandum of Understanding (MOU) with the Environmental Protection Agency Concerning the Radionuclide National Emission Standards for Hazardous Air Pollutants." This document states the following:

"For sources subject to the standard of Section 61.192, DOE will demonstrate compliance through direct measurement of radon-222 in accordance with Appendix B, Method 115, or use alternative procedures (based on best available data) that do not underestimate emissions. Where flux measurements demonstrate compliance with the 20  $\text{pCi}/\text{m}^2\text{-sec}$  standard, no further measurements are required so long as the storage or disposal site remains in the condition for which compliance was demonstrated."

In 1993 and 1994, LANL conducted a study to characterize emissions from the Area G disposal site, entitled "Measurement of Emission Fluxes from Technical Area 54, November 27, 2002

Areas G and L." This study shows a maximum measured radon emission rate of 0.33 pCi/m<sup>2</sup>-sec (20 pCi/m<sup>2</sup>-min) and an average emission rate of 0.14 pCi/m<sup>2</sup>-sec (8.1 pCi/m<sup>2</sup>-min) for the entire site. An analysis performed for the DOE-required performance assessment for Area G shows that, based on historic and future waste disposal patterns, Rn-222 activity will not increase for more than 1000 years. It can be concluded that the site has remained in the same condition for which compliance was demonstrated (e.g., the site condition has not been altered by adverse weather conditions, a natural catastrophe has not occurred, greater concentrations of wastes are not being disposed of, etc.). Therefore, in accordance with the conditions in the MOU, LANL is in compliance with Subpart Q.

#### **4.1.23. 40 CFR Part 63 - Subpart T - MACT for Halogenated Solvent Cleaning**

MACT, Subpart T applies to minor or area sources of HAP emissions. LANL operates three solvent cleaning machines, or degreasers, which are subject to the Subpart T NESHAP due to the usage of trichloroethylene as a cleaning solvent. These units are described in Section 3.7 of this application. Each degreaser is a cold batch design that is subject to work practice standards under Subpart T. There are no physical controls required by the rule.

Work practice standards that apply to the degreasers are listed in Table 3.7-2 and are intended to minimize evaporative emissions of the cleaning solvent. LANL complies with these requirements.

#### **4.1.24. 40 CFR Part 64 - Compliance Assurance Monitoring**

The Part 64 Compliance Assurance Monitoring (CAM) rule was developed by EPA to meet the Clean Air Act Amendments of 1990 requirement for Title V sources to implement enhanced compliance monitoring. The purpose of the rule is to provide an assurance of compliance with emission limitations or standards. Emission units at Part 70 sources that are not subject to the CAM rule are subject to the periodic monitoring requirements of state Title V operating permit regulations. CAM requirements only apply

at Part 70 sources, and the rule is to be implemented by the permitting authority, i.e., NMED.

CAM requirements only apply to certain emission units at a Part 70 source. In order for the CAM rule to apply, all three of the following criteria must be met: (1) the unit must be subject to an emission limitation or standard, (2) the unit must use a control device to achieve compliance with the emission limitation or standard, and (3) the unit must have potential pre-control device emissions equal or greater than 100 percent of the amount in tons per year required for a source to be classified as a major source. The criteria are applied on a pollutant by pollutant basis.

The only emission units at LANL with pre-control potential emissions greater than 100 tons per year (the major source threshold for LANL) are the three boilers at the TA-3 Power Plant. Potential pre-control NO<sub>x</sub> emissions from each boiler exceed 100 tons per year. The boilers are also subject to a NO<sub>x</sub> emission limitation established in the construction permit for the FGR system, and the FGR control system is used to achieve compliance with the NO<sub>x</sub> emission limits in the permit.

EPA finalized the CAM rule after many sources had either begun work on or already submitted a Title V operating permit application. As such, the rule has a phased approach to implementation of CAM requirements. 40 CFR §64.5 specifies deadlines for submission of a plan to meet CAM requirements. Under this section, each boiler at TA-3 meets the criteria at 40 CFR §64.5 (b) for *Other pollutant-specific emissions units*. CAM plans for these units must be submitted as part of the application for renewal of a Title V operating permit.

LANL will comply with this rule and include a CAM plan in the first application for renewal of a Title V operating permit.



#### **4.1.25. 40 CFR Part 82 - Subpart B - Servicing of Motor Vehicle Air Conditioners**

This Subpart established standards and requirements related to recycling equipment used in the servicing of motor vehicle air conditioners, and training and certification of technicians providing such services. LANL services motor vehicle air conditioners and uses recycling equipment certified in accordance with 40 CFR §82.36. All technicians servicing motor vehicle air conditioners at LANL are certified in accordance with 40 CFR §82.40.

#### **4.1.26. 40 CFR Part 82 - Subpart F - Recycling and Emission Reduction**

This Subpart prohibits individuals from knowingly venting ozone-depleting substances used as refrigerants into the atmosphere while maintaining, servicing, repairing, or disposing of air conditioning or refrigeration equipment. Under Section 608 of the CAA, it has been illegal since November 15, 1995, to knowingly vent substitutes for chlorofluorocarbons (CFC) and hydrochlorofluorocarbons (HCFC) refrigerants during the maintenance, service, repair and disposal of air-conditioning and refrigeration equipment. LANL recovers all refrigerants during maintenance, service, repair and disposal of refrigeration equipment at the Laboratory and does not vent refrigerants to the atmosphere.

Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR §82.156. LANL has adopted procedures to comply with 40 CFR §82.156 and performs all maintenance, service, repair and disposal in accordance with 40 CFR §82.156 requirements.

Equipment used during the maintenance, service, repair and disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR §82.158. All of LANL's refrigerant recovery

equipment meets the requirements of 40 CFR §82.158 and is certified by EPA approved equipment testing organizations as specified in 40 CFR §82.160.

Persons performing maintenance, service, repair and disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR §82.161. All technicians performing refrigeration work at LANL are certified in accordance with 40 CFR §82.161.

#### **4.1.27. 40 CFR Part 82 – Subpart H – Halon Emissions Reduction**

LANL services and maintains equipment that contains halons. All technicians employed who maintain the equipment have been trained regarding halon emissions reduction. During maintenance of halon equipment, technicians do not knowingly vent or otherwise release halon into the environment. LANL also disposes of halon-containing equipment in accordance with Subpart H requirements. LANL is in compliance with this regulation.