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*Environmental Protection Division
Environmental Compliance Programs (ENV-CP)*
PO Box 1663, K490
Los Alamos, New Mexico 87545
(505) 667-0666

Date: OCT 21 2015
Symbol: ENV-DO-15-0300
LA-UR: 15-28156
Locates Action No.: N/A

Ms. Michelle Hunter, Bureau Chief
Ground Water Quality Bureau
New Mexico Environment Department
Harold Runnels Building, N2250
1190 St. Francis Drive
P.O. Box 26110
Santa Fe, New Mexico 87502

Mr. James Hogan, Bureau Chief
Surface Water Quality Bureau
New Mexico Environment Department
Harold Runnels Building, N2050
1190 St. Francis Drive
P.O. Box 5469
Santa Fe, New Mexico 87502-5469

Dear Ms. Hunter and Mr. Hogan:

Subject: Notice of Intent to Discharge Potable Water from Los Alamos National Laboratory, Technical Area (TA) 55-400, Fire Suppression System

Enclosed is a Notice of Intent to Discharge (NOI) that has been prepared by Los Alamos National Security, LLC (LANS) for submittal to the New Mexico Environment Department pursuant to 20.6.2.1201 NMAC of the New Mexico Water Quality Control Commission Regulations and the Los Alamos National Laboratory (LANL) Liquid Discharge Reporting Guidance (Decision Tree), dated March 10, 2009.

The proposed discharges will be conducted from the fire suppression system at Technical Area 55 Building 400 (TA-55-400) to comply with National Fire Protection Association (NFPA) 25, *Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems*. The discharges will be conducted annually and each discharge is expected to be less than 10,000 gallons of dechlorinated potable water. The water will flow into a storm water detention basin southeast of TA-55-400. The storm water detention basin is connected to Two-Mile Canyon, but the discharged water is not expected to leave the storm water detention basin. The discharge will be visually monitored to minimize the potential for adverse environmental impacts. The discharges will not affect any Solid Waste Management Units, Areas of Concern, or Storm Water Individual Permit sites.



Ms. Michelle Hunter & Mr. James Hogan
ENV-DO-15-0300

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An expedited review of the Notice of Intent would be greatly appreciated. Conducting the 2015 test before the onset of freezing temperatures will help ensure the safety of facility tenants.

Please contact Jacob Meadows of the Environmental Compliance Programs (ENV-CP) at (505) 606-0185 with any questions.

Sincerely,



Anthony R. Grieggs
Group Leader
Environmental Compliance Programs (ENV-CP)
Los Alamos National Security, LLC

ARG:MTS:BI/m

Enclosure:

1. Notice of Intent to Discharge Potable Water from Los Alamos National Laboratory, Technical Area (TA) 55 Fire Suppression System

Cy: Gladys Gooden-Jackson, USEPA Region 6, Dallas, TX, (E-File)
Steve M. Huddleson, NMED-GWQB, (E-File)
Greg M. Huey, NMED-GWQB, (E-File)
Gerald L. Knutson, NMED-GWQB, (E-File)
Shelly Lemon, NMED-SWQB, (E-File)
Craig S. Leasure, PADOPS, (E-File)
Amy E. De Palma, PADOPS, (E-File)
Gene E. Turner, LANS-NS-LP, (E-File)
Jordan Arnsward, LASO-NS-PI, (E-File)
Kirsten M. Laskey, LASO-SUP, (E-File)
Michael T. Brandt, ADESH, (E-File)
Racanna R. Sharp-Geiger, ADESH, (E-File)
Alison M. Dorries, ENV-DO, (E-File)
Michael T. Saladen, ENV-CP, (E-File)
Jacob W. Meadows, ENV-CP, (E-File)
Brian M. Iacona, ENV-CP, (E-File)
lasomailbox@nnsa.doe.gov, (E-File)
locatesteam@lanl.gov, (E-File)
env-correspondence@lanl.gov

NOTICE OF INTENT

1. **Name and address of facility making the discharge.**
Los Alamos National Laboratory
P.O. Box 1663
Los Alamos, New Mexico 87545
2. **Location of the discharge.**
Los Alamos National Laboratory (LANL), Technical Area (TA) 55 Building 400
(approximate coordinates: 35° 51' 40.20" N and 106° 18' 07.41" W).
3. **The means of discharge. (To lagoon, Flowing stream, Water course, Arroyo, Septic tank, other).**

Proposed discharges of potable water will be conducted from the fire suppression system at TA-55-400. Testing of the fire pump at TA-55-400 is required to comply with National Fire Protection Association (NFPA) 25, *Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems*. The fire suppression system at TA-55-400 is served by the Los Alamos County potable water supply. The water will be discharged from a test header located on the southwest side of the building. Water will be discharged to an asphalt surface from hoses connected to the test header. The water will be directed into a nearby storm drain which flows to a storm water detention basin southeast of TA-55-400. The storm water detention basin is connected to Two-Mile Canyon, but the discharged water is not expected to leave the storm water detention basin. Best Management Practices will include Vita-D-Chlor, to assist with dechlorination, and gravel bags, to direct the water into the storm drain. The discharge will not flow through any Solid Waste Management Units, Areas of Concern, or Storm Water Individual Permit sites. The discharge will be visually monitored to ensure it does not cause any adverse environmental impacts.

4. **The estimated concentration of contaminants (if any) in the discharge.**

The water is from a potable source and will be dechlorinated prior to reaching the storm drain and storm water detention basin.

5. **The type of operation from which the discharge is derived.**

Testing of the fire pump at TA-55-400 will be conducted in accordance with NFPA 25, *Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems*. The discharge will be repeated annually to facilitate LANL's compliance with NFPA requirements.

6. **The estimated flow to be discharged per day.**

Each discharge will be conducted during one day. The flow test is expected to last 5-6 minutes and the total discharge volume is estimated to be less than 10,000 gallons of dechlorinated potable water.

7. **The estimated depth to Groundwater (if available).**

The regional aquifer is approximately 1,300 feet below the ground surface.