



ERED



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**Date:** FEB 19 2016

**Symbol:** EPC-DO-16-042

**LA-UR:** 16-20636

**Locates Action No.:** NA

**Ms. Michelle Hunter, Chief**  
**Ground Water Quality Bureau**  
**New Mexico Environment Department**  
**Harold Runnels Building, Room N2261**  
**1190 St. Francis Drive**  
**P.O. Box 26110**  
**Santa Fe, NM 87502**

Dear Ms. Hunter:

**Subject: Updated Sanitary Effluent Reuse System Schematic, TA-46 Sanitary Wastewater Systems (SWWS) Plant and Sanitary Effluent Reclamation Facility (SERF), DP-857**

In July 2010 the U.S. Department of Energy and Los Alamos National Security, LLC (DOE/LANS) submitted an application (ENV-RCRA-10-127) for renewal and modification of Discharge Permit DP-857 for the Sanitary Wastewater Systems (SWWS) Plant and the Sanitary Effluent Reclamation Facility (SERF). Appendix B of the above-referenced application contained a schematic of Los Alamos National Laboratory's Sanitary Effluent Reuse System. In July 2014 DOE/LANS amended the 2010 Appendix B schematic to reflect the addition of a mechanical evaporator at the Sigma Mesa Evaporation Basins (ENV-DO-14-0181). A copy is provided as Enclosure 1. DOE/LANS have revised the effluent reuse system schematic again for the following reasons:

- ✓ The addition of the 5<sup>th</sup> Sigma Mesa Evaporation Basin (SMEB); and
- ✓ Minor editorial and format changes to improve the readability of the schematic.

A copy of the revised schematic has been provided as Enclosure 2.





**COPY**



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## GROUND WATER

**FEB 19 2016**

**BUREAU**

**Ms. Michelle Hunter, Chief  
Ground Water Quality Bureau  
New Mexico Environment Department  
Harold Runnels Building, Room N2261  
1190 St. Francis Drive  
P.O. Box 26110  
Santa Fe, NM 87502**

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- ✓ The addition of the 5<sup>th</sup> Sigma Mesa Evaporation Basin (SMEB); and
- ✓ Minor editorial and format changes to improve the readability of the schematic.

A copy of the revised schematic has been provided as Enclosure 2.

Mr. Michelle Hunter  
EPC-DO-16-042

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Please contact Robert S. Beers by telephone at (505) 667-7969 or by email at [bbeers@lanl.gov](mailto:bbeers@lanl.gov) if you have questions regarding this notification.

Sincerely,



John P. McCann  
Acting Division Leader  
Environmental Protection & Compliance Division  
Los Alamos National Security LLC

Sincerely,



Jody Pugh  
Assistant Manager  
National Security Missions  
NNSA/Los Alamos Field Office

JPM:JP:MTS:RSB/lm

Enclosures:

1. ENV-DO-14-0181, Proposed Revision of Discharge Permit Renewal and Modification Application, DP-857
2. Revised Appendix B\_Figure 1\_LANL Sanitary Effluent Reuse System Schematic\_Revise Date: 2/10/2016

Cy: James Hogan, NMED/SWQB, Santa Fe, NM, (E-File)  
John E. Kieling, NMED/HWB, Santa Fe, NM, (E-File)  
Stephen M. Yanicak, NMED/DOE/OB, (E-File)  
Hai Shen, EM-SG, (E-File)  
Jody Pugh, LASO-NS, (E-File)  
Jordan Arnsward, LASO-NS-PI, (E-File)  
Kirsten Laskey, EM-LA, (E-File)  
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Michael T. Brandt, ADESH, (E-File)  
Raeanna Sharp-Geiger, ADESH, (E-File)  
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Pablo F. C De Vaca, UI-OPS, (E-File)  
Randy E. Vigil, UI-OPS, (E-File)  
Gabriel C. Herrera, ES-UI, (E-File)  
Michael T. Saladen, EPC-CP, (E-File)  
Robert S. Beers, EPC-CP, (E-File)  
Marc A. Bailey, EPC-CP, (E-File)  
Saundra Martinez, OIO-DO, (E-File)  
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# **ENCLOSURE 1**

**ENV-DO-14-0181, Proposed Revision of Discharge Permit  
Renewal and Modification Application, DP-857**

**EPC-DO-16-042**

**LA-UR-16-20636**

**Date:**           **FEB 19 2016**



**Environmental Protection Division  
Environmental Compliance Programs (ENV-CP)**  
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**National Nuclear Security Administration  
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(505) 667-5794/Fax (505) 667-5948

**Date:** JUL 28 2014  
**Symbol:** ENV-DO-14-0181  
**LAUR:** 14-25367

Mr. Jerry Schoeppner, Chief  
Ground Water Quality Bureau  
New Mexico Environment Department  
Harold Runnels Building, Room N2250  
1190 St. Francis Drive  
P.O. Box 26110  
Santa Fe, NM 87502

Dear Mr. Schoeppner:

**Subject: Proposed Revision of Discharge Permit Renewal and Modification Application DP-857**

In July 2010 the U.S. Department of Energy and Los Alamos National Security, LLC (DOE/LANS) submitted an application for renewal and modification of Discharge Permit DP-857 for the Sanitary Wastewater Systems (SWWS) Plant and the Sanitary Effluent Reclamation Facility (SERF). On December 20, 2012, DOE/LANS amended the above-referenced discharge permit application due to operational changes at Los Alamos National Laboratory (ENV-RCRA-12-0272). It has become necessary for DOE/LANS to propose another revision of the July 2010 application for renewal and modification of Discharge Permit DP-857:

- ▶ The addition of a mechanical evaporator at the SERF evaporation basins to supplement the evaporation of reverse osmosis reject wastewater.

In a January 23, 2014, email (Enclosure 1), DOE/LANS submitted a proposed plan for the enhanced evaporation of reverse osmosis (RO) reject wastewater from SERF using a mechanical evaporator. On February 7, 2014, the New Mexico Environment Department Ground Water Quality Bureau (NMED GWQB) responded to the proposed plan (Enclosure 2) by requiring DOE/LANS to complete the following actions: (1) submit a Notice of Intent (NOI) to the NMED Air Quality Bureau (AQB) for a regulatory determination, and (2) submit a copy of the NMED AQB's reply to the NMED GWQB. On June 20, 2014, the NMED AQB provided DOE/LANS with a *No Permit Required* determination for the operation of a spray evaporation system at LANL (Enclosure 3). Accordingly, DOE/LANS are submitting this proposed application revision. Additional information on the enhanced evaporation system is provided below.

Mr. Jerry Schoepner  
ENV-DO-14-0181

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The SMI 420B evaporator will become a component of Los Alamos National Laboratory's Sanitary Effluent Reuse System. Enclosure 5 contains a revised schematic of the Effluent Reuse System (Figure 1, Appendix B, Discharge Permit Renewal and Modification Application).

DOE/LANS proposed to install a single SMI 420B Evaporator at the Sigma Mesa Evaporation Basins (SMEB) to enhance the evaporation of RO wastewater from SERF. A second evaporator may be installed, as needed. Technical specifications of the SMI 420B are provided in Enclosure 4. Additional project-specific specifications and operating criteria are listed below:

- ✓ **Maximum discharge (gal. per day):** 12,000
- ✓ **Maximum discharge (gal. per minute):** 30
- ✓ **Hours of operation:** Monday through Friday, dawn to dusk
- ✓ **Months of operation:** 12
- ✓ **Ambient operating temperature:** >38°F
- ✓ **Frequency of inspections:** Daily, when operating
  
- ✓ **Operational Controls:** Real-time atmospheric monitoring of current wind speed and direction, temperature, and relative humidity will be used to make adjustments to the operation of the evaporator. These adjustments include reduced spray volume to achieve near total evaporation and cessation of operation in the event that current weather conditions do not permit operation. The evaporator has a programmable logic controller (PLC) that can be programmed to terminate operation when user-determined parameters are exceeded, primarily wind speed and direction, as well as temperature.
  
- ✓ **Operational Procedures:** Standard Operating Procedures (SOPs) will be prepared for the operation and maintenance of the SMI 420B evaporator.
  
- ✓ **Secondary Containment:** The SMI 420B evaporator will be sited with the tributary area of the Sigma Mesa Evaporation Basins. Those components outside of the capture area of the basins will be located within secondary containment.
  
- ✓ **Spray Drift:** Spray drift will be mitigated through the use of the following controls:
  - Using site-specific meteorological data, a wind rose was produced showing the relative frequency of speed and direction. A location for the evaporator was chosen to maximize operational time where prevailing winds would blow in the direction coincident with the farthest distance to the basin liner's edge, thus minimizing the probability of spray drift traveling beyond the established basin's footprint. Enclosures 6 and 7 show that the calculated drift boundary is within the footprints of the northeast and northwest SMEBs.
  
  - The evaporator's programmable logic controller (PLC) will be programmed to terminate operation when user-determined wind speed and direction are exceeded.

Mr. Jerry Schoeppner  
ENV-DO-14-0181

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In summary, DOE/LANS propose to revise Discharge Permit Renewal and Modification Application DP-857 to include the installation and operation of mechanical evaporation system at the SMEBs.

Please call Robert Beers at (505) 667-7969 if you have questions regarding this revision.

Sincerely,



Alison M. Dorries  
Division Leader  
Environmental Protection Division  
Los Alamos National Security LLC

Sincerely,



Gene E. Turner  
Environmental Permitting Manager  
Environmental Projects Office  
Los Alamos Field Office  
U.S. Department of Energy

AMD:GET:RSB/ms

Enclosures:

1. DOE/LANS Proposed Plan to NMED GWQB to Enhance Evaporation at the SERF Evaporation Basins (01/23/2014)
2. NMED GWQB Response to Proposed Plan to Enhance Evaporation at SERF Evaporation Basins (02/07/2014)
3. *No Permit Required* from NMED Air Quality Bureau for Spray Evaporation System at SERF Evaporation Basins (06/20/2014)
4. Technical Specifications of the SMI 420B Evaporator
5. Revised Figure 1, Appendix B, DP-857 Permit Application Schematic of the LANL Effluent Reuse System (07/15/2014)
6. Google Earth® Image of the SERF Evaporation Basins, Location of the SMI Evaporator, and Drift Boundary
7. Drawing of the SMI Evaporator Spray Drift Buffer Areas

Cy: James Hogan, NMED/SWQB, Santa Fe, NM  
John E. Kieling, NMED/HWB, Santa Fe, NM  
Steven M. Yanicak, NMED/DOE/OB, (E-File)  
Hai Shen, NA-LA, (E-File)  
Gene E. Turner, NA-LA, (E-File)  
Eric L. Trujillo, NA-LA, (E-File)  
Carl A. Beard, PADOPS, (E-File to [aosburn@lanl.gov](mailto:aosburn@lanl.gov))  
Michael T. Brandt, ADESH, (E-File)  
Alison M. Dorries, ENV-DO, (E-File)  
Andrew W. Erickson, UI-DO, (E-File)  
Lawrence V. Chavez, UI-OPS, (E-File)  
Gary F. Blauert, ES-UI, (E-File)  
Gabriel C. Herrera, ES-UI, (E-File)

**Mr. Jerry Schoepfer**  
**ENV-DO-14-0181**

- 4 -

**Cy (continued):**

**Michael T. Saladen, ENV-CP, (E-File)**

**Robert S. Beers, ENV-CP, (E-File)**

**lasomailbox@nnsa.doe.gov, (E-File)**

**locatesteam@lanl.gov, (E-File)**

**env-correspondence@lanl.gov, (E-File)**

## **ENCLOSURE 1**

**DOE/LANS Proposed Plan to NMED GWQB to Enhance  
Evaporation at the SERF Evaporation Basins (01/23/2014)**

**ENV-DO-14-0181**

**LAUR-14-25367**

**Date:       JUL 28 2014**

ENV-DO-14-0181

ENCLOSURE 1

LAUR-14-25387

**From:** Beers, Bob  
**To:** [Jerry.Schoepfner@state.nm.us](mailto:Jerry.Schoepfner@state.nm.us)  
**Cc:** [Pratt, Jennifer](mailto:Pratt, Jennifer); [JERRY.Donofrio.Pruett@state.nm.us](mailto:JERRY.Donofrio.Pruett@state.nm.us); [Gerald.Hudson@state.nm.us](mailto:Gerald.Hudson@state.nm.us); [Salinas, Michael T.](mailto:Salinas, Michael T.); [Harmon, Gabriel C.](mailto:Harmon, Gabriel C.); [Chavez, Lawrence Y.](mailto:Chavez, Lawrence Y.); [Turner, Gene E.](mailto:Turner, Gene E.); [Troffo, Eric L.](mailto:Troffo, Eric L.) ([Eric.Troffo@nrc.gov](mailto:Eric.Troffo@nrc.gov)); [Reuent, Gary F.](mailto:Reuent, Gary F.)  
**Subject:** Proposed Plan to Enhance Evaporation at the SERF Evaporation Basins  
**Date:** Thursday, January 23, 2014 3:56:00 PM  
**Attachments:** [Evaporator-420B.pdf](#)

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Dear Mr. Schoepfner,

As you are aware, the U.S. Department of Energy and Los Alamos National Security, LLC (DOE/LANS) are currently contending with the issue of dwindling capacity at the SERF Evaporation Basins for receiving reverse osmosis reject from the SERF. Several options for solving this pressing concern are actively being considered; one of which, discharge into the SWWS Plant's collection system, we discussed with you during our December 24, 2013, meeting. While discharge to the SWWS Plant has not been rejected, we are evaluating an array of other options in an attempt to find the best solution.

A new option, the use of a sprayer system to hasten the evaporation rate of reverse osmosis reject, appears to be a very promising solution. The use of such equipment is easily implemented, promises significant increases to the evaporation rate compared to passive evaporation, and has minimal risk associated with its use.

One evaporator being evaluated is the SMI® 420B Evaporator. Please see the attached manufacturer's technical bulletin. A single unit would be sited between the Northeast and Northwest Evaporation Basins (close to the center of the four basins). The evaporator has a programmable logic controller (PLC) that can be programmed to terminate operation when user-determined parameters are exceeded, primarily wind speed and direction, as well as temperature. The evaporator would be placed within secondary containment.

The primary cause of concern regarding the use of an evaporative sprayer is a condition called "spray drift", where particles discharged from a sprayer nozzle can move through the air into areas where spray would be unintended. This risk would be offset through the use of the following controls:

- Using a wind rose showing the relative frequency of speed and direction, a location for the evaporator was chosen to maximize operational time where prevailing winds would blow in the direction coincident with the farthest distance to the basin liner's edge, thus minimizing the probability of spray drift traveling beyond the established basin's footprint.
- Real-time atmospheric monitoring of current wind speed and direction, temperature, and relative humidity will be used to make adjustments to the operation of the evaporator. These adjustments include reduced spray volume to achieve near total evaporation and cessation of operation in the event that current weather conditions do not permit operation.

## **ENCLOSURE 2**

**NMED GWQB Response to Proposed Plan to Enhance  
Evaporation at SERF Evaporation Basins (02/07/2014)**

**ENV-DO-14-0181**

**LAUR-14-25367**

**Date: JUL 2 8 2014**

ENV-DO-14-0188

ENCLOSURE 2

LAUR-14-25367

**From:** [Knutson, Gerald, NMED](#)  
**To:** [Beers, Bob](#)  
**Cc:** [Schaeffer, Jerry, NMED](#); [Pruett, Jennifer, NMED](#); [Hill, John, NMED](#)  
**Subject:** Reply to the proposed plan to enhance evaporation at the Sigma Mesa Evaporative Basins  
**Date:** Friday, February 07, 2014 3:51:04 PM

---

Mr. Beers,

NMED staff reviewed the LANL proposal for installing a SMI 420B Evaporator (sprayer system) at the Sigma Mesa Evaporation Basins (SMEB) to enhance evaporation of the reverse osmosis reject wastewater from SERF. This addition must be included in LANL's Discharge Permit, DP-857. NMED would insert condition(s) in the SMEB section of DP-857 requiring LANL to record the number of days the sprayer system is used and to annually sample soil around the basins.

If LANL decides to use a sprayer system to enhance evaporation at the SMEB, LANL shall do the following:

- Submit an NOI to the Air Quality Bureau for their determination regarding the use of this sprayer system.
- Submit a copy of the Air Quality Bureau's reply to GWQB.
- If approved by the Air Quality Bureau, submit to GWQB a proposed revision to the Discharge Permit Renewal and Modification application to include the sprayer system at the SMEB.

LANL may not construct, install or use any sprayer system unless or until approval by NMED.

If you have any questions, please reply or call me at 505-827-2996.

Sincerely,

Gerald Knutson  
Environmental Scientist & Specialist A  
NMED-GWQB

## **ENCLOSURE 3**

***No Permit Required* from NMED Air Quality Bureau for Spray Evaporation System at SERF Evaporation Basins (06/20/2014)**

**ENV-DO-14-0181**

**LAUR-14-25367**

**Date:           JUL 2 8 2014**

ENV-DO-14-0181

ENCLOSURE 3

LAUR-14-25387



SUSANA MARTINEZ  
GOVERNOR

JOHN A. SANCHEZ  
LIEUTENANT GOVERNOR

**New Mexico  
ENVIRONMENT DEPARTMENT**

525 Camino de los Marquez Suite 1

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RYAN FLYNN  
CABINET SECRETARY

BUTCH TONGATE  
DEPUTY SECRETARY

June 20, 2014

Anthony R. Grieggs  
Group Leader  
ENV-CP  
Los Alamos National Security, LLC  
U.S. Department of Energy National  
Nuclear Security Administration  
PO Box 1663, K490  
Los Alamos, NM 87545

Air Quality No Permit Required (NPR)  
No. 2195X  
Facility type, Federal Agency  
IDEA ID No. 856 - PRN20140003  
Los Alamos National Laboratory  
AIRS No. 350280001

Dear Mr. Grieggs:

This letter acknowledges the receipt of your request for a permit applicability determination dated May 22, 2014 to construct and operate a Spray Evaporation system at the Sanitary Effluent Reclamation Facility in TA 60 at the Los Alamos National Laboratory near Los Alamos, New Mexico. This Spray Evaporation system is located in Township 19N, Range 06E, Section 22, approximately 1.0 mile south of Los Alamos, New Mexico in Los Alamos County. The request was received by the Department on May 23, 2014.

A review has been completed and the information provided is sufficient to complete an evaluation of your No Permit Required request. The results demonstrate that the emissions solely from the proposed spray evaporation system (TA-60-EVAP) are too low to trigger 20.2.72 NMAC - Construction Permits or 2.73 - Notice of Intent and Emissions Inventory Requirements. This determination is based on the assumption that the spray evaporation system is a stand-alone emissions source for New Source Review (NSR) permitting and is not part of another source with an existing NSR permit. Therefore this notice of No Permit Required authorizes you to operate the spray evaporation system as stated in the application.

Given, that emissions from the entire Los Alamos National Laboratory facility are regulated under one operating permit P100R1M1, any emissions from the spray evaporation system shall be considered when verifying compliance with the facility-wide emissions caps listed in that permit.

## **ENCLOSURE 4**

### **Technical Specifications of the SMI 420B Evaporator**

**ENV-DO-14-0181**

**LAUR-14-25367**

**Date:**           **JUL 28 2014**

# 420B



## OVERVIEW

### BENEFITS

Flexible Operation

High Performance

Easy Maintenance

Manual Clipping

Extreme Duty

## FEATURES

**Flexible plume height** to adjust droplet drift for greater efficiency in swirling or constantly changing winds and higher evaporation rates due to longer hang time

**Heavy industrial** construction, including stainless control panel, motor enclosure, manifold and fan blade for increased durability and service life

**Vibration sensor** included to shut down motor before catastrophic failure due to residue or ice build-up

# 420B

## SPECIFICATIONS

### Fan and Head Assembly

- Stainless steel 20 inch diameter 12 blade patented fan
- Stainless steel enclosure protects fan motor and enhances cooling
- Vibration sensor for motor shut down due to fan imbalance

### Boom, Platform and Base

- Fan stands 20 feet in air in full upright position
- Galvanized steel frame work with stainless steel fasteners
- Base has a 8' X 8' footprint
- One ton free standing concrete counterweight system
- Easy to use jack to raise and lower boom

### Water System

- Stainless steel spray manifold, designed to provide 66 GPM (250 LPM) at 100 PSI (7 Bar) water pressure
- Ball valve to control flow to spray manifold due to changing weather conditions

### Electrical

- 25 HP Premium efficiency fan motor
- Fan motor rotates at 3600 RPM at 480 volt, 3 phase, 60 cycle power or 2900 RPM at 400 volt, 50 cycle power
- Stainless steel control panel with start and stop buttons
- 150 feet (45 M) electrical power cord

### Warranty

- 6 month warranty on all parts and workmanship

### Options

- For acidic or high-alkaline water applications, stainless steel construction and acid resistant coating
- 180 degree option available for boom
- Y-line manual flush filter for dirtier water
- Automation, shut down and startup of evaporator due to wind speed and direction, temperature and humidity



**Evaporative  
Solutions**

SMI Evaporative Solutions  
1512 North Rockwell Dr.  
Midland, MI 48642  
Tel: +1.989.631.6091  
Toll Free: +1-800-248-6600  
[evapor.com](http://evapor.com)

## **ENCLOSURE 5**

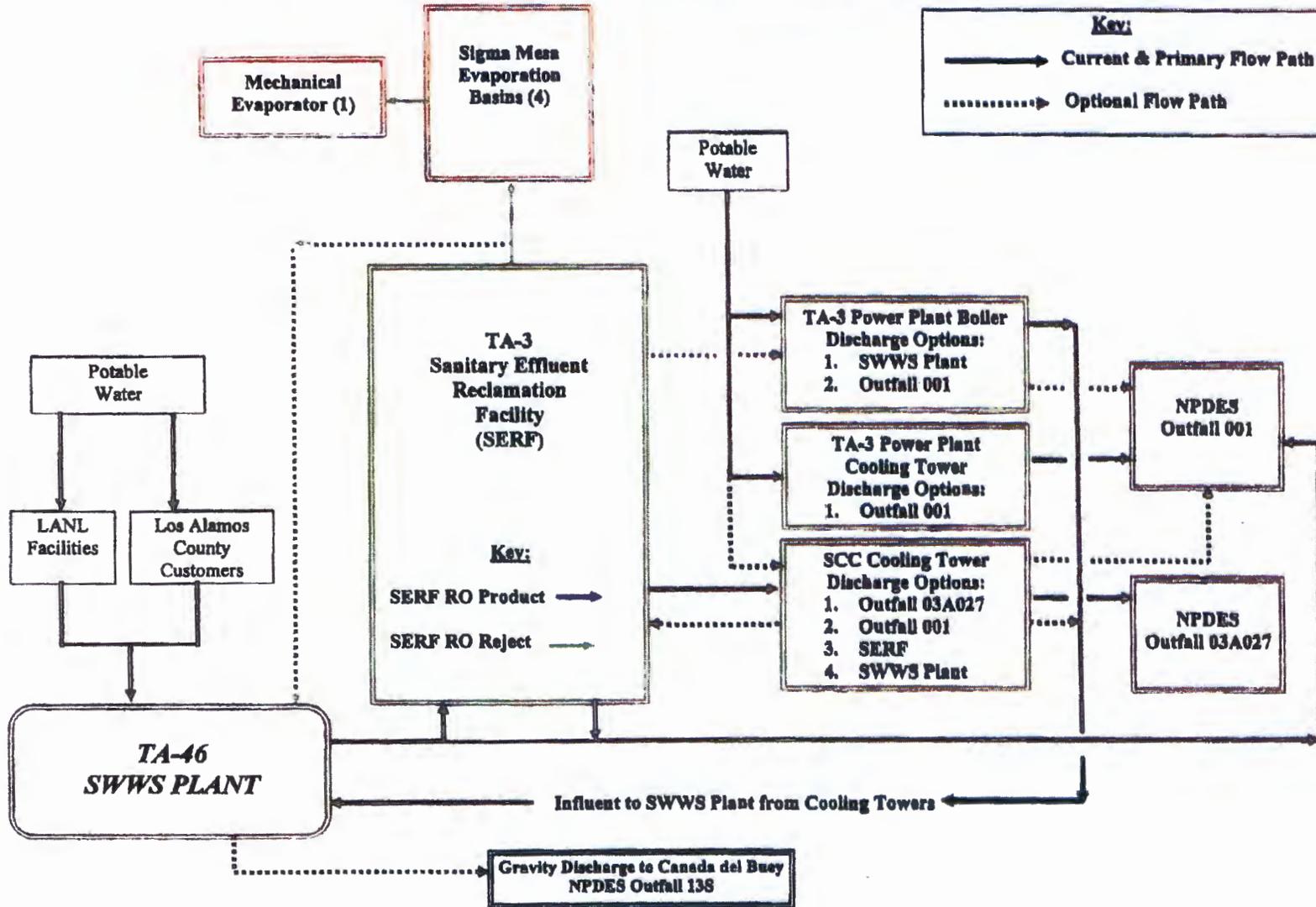
**Revised Figure 1, Appendix B, DP-857 Permit Application  
Schematic of the LANL Effluent Reuse System  
(07/15/2014)**

**ENV-DO-14-0181**

**LAUR-14-25367**

**Date: JUL 28 2014**

REVISED APPENDIX B FIGURE 1 LANL SANITARY EFFLUENT REUSE SYSTEM SCHEMATIC REVISE DATE 7/16/2014



## **ENCLOSURE 6**

**Google Earth® Image of the SERF Evaporation Basins,  
Location of the SMI Evaporator, and Drift Boundary**

**ENV-DO-14-0181**

**LAUR-14-25367**

**Date:           JUL 28 2014**



Figure 1. Google Earth® Image of the SERF Evaporation Basins, Location of SMI Evaporator ("center point"), and drift boundary (red line).

## **ENCLOSURE 7**

**Drawing of the SMI Evaporator Spray Drift Buffer Areas**

**ENV-DO-14-0181**

**LAUR-14-25367**

**Date:**           **JUL 28 2014**



## **ENCLOSURE 2**

**Revised Appendix B\_Figure 1\_LANL Sanitary Effluent Reuse  
System Schematic\_Revise Date: 2/10/2016**

**EPC-DO-16-042**

**LA-UR-16-20636**

**Date: FEB 19 2016**

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REVISED APPENDIX B FIGURE 1 LANL SANITARY EFFLUENT REUSE SYSTEM SCHEMATIC REVISE DATE 02/10/2016

