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April 15, 2026

Ms. Geraldina Grunbaum
ggrunbaum@baaqmd.gov

Bay Area Air District
375 Beale Street, Suite 600
San Francisco, CA 94105

**Subject:** *Site 300 Experimental Test Site Prescribed Burning Smoke Management Plan, Lawrence Livermore National Laboratory*

**Enclosure:** Prescribed Fire Information Reporting System (PFIRS) Submittal- 2026
Prescribed Burning Smoke Management Plan (SMP) for LLNL Site 300

Dear Ms. Grunbaum:

Lawrence Livermore National Laboratory (LLNL) has submitted the 2026 Prescribed Burning Smoke Management Plan (SMP) for LLNL Site 300 Experimental Test Site to Bay Area Air District (BAAD) through the State's Prescribed Fire Information Reporting System (PFIRS). Enclosed with this letter is a copy of the electronic submittal.

Pursuant to Section 5-113 of BAAD Regulation 5 *Open Burning* (November 20, 2019), any public agency conducting a prescribed burn for the purpose of wildfire prevention is exempt from the operation fees requirements of Section 5-411 of this rule. A public agency seeking to rely on this exemption shall request that it be applicable upon submittal of the smoke management plan. As described in LLNL's 2026 SMP, one of the objectives of conducting a prescribed burn at LLN Site 300 is wildfire prevention, and therefore, LLNL respectfully requests that the prescribed burning operation fees be waived.

If you have any questions regarding this submittal or require additional information, please contact Saira Soriano of my staff at (925) 961-7952 or soriano4@llnl.gov.

DocuSigned by:
Paul Roy
6EA10AF95384431...

4/15/2026

*Paul Roy – Waste & Air Quality Office Group Leader, EFA*

*Copy:*

Aluzzi, Gino
Borrelli, Carol (NNSA/LFO)
Castro, Miguel
Chen, Alan (NNSA/LFO)
Cook, Courtney
DeLeyos, Bing
Dibley, Valerie
Diregolo, Brian (ACFD)
Franconi, Mitzi
Fechser, Matt
Grim, Tom (NNSA/LFO)
Heard, Marcus (NNSA/LFO)
Mishra, Vijay (NNSA/LFO)
Naranjo, Alberto
Onofe, Tolu
Rivera, Cynthia
Roy, Paul
Ruiz, Alex
Rutherglen, Cory (ACFD)
Ryza, Michelle
Saabye, Alexandra
Sharry, John
So, Wai-Man
Soriano, Saira
Sutton, Mark
Vaughan, Quentin
Washington, Lawrence (NNSA/LFO)
Wilson, Scott
Wise, Tammy (NNSA/LFO)
Woollett, Jim

Site 300 Prescribed Burn File
UCM: Site 300, Prescribed Burn

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# ENCLOSURE 1

Prescribed Fire Information Reporting System (PFIRS) Submittal –

2026 Prescribed Burning Smoke Management Plan (SMP) for

LLNL Site 300 Experimental Test Site

# LLNL S300 2026- BAAD

## General Information

| | |
|---|---|
| Primary Responsible Person | **Saira Soriano** |
| Email | **soriano4@llnl.gov** |
| Landowner(s) Name(s)* | **US Government-Department of Energy** |
| Landowner Mailing Address* | **7000 East Ave.,<br>Livermore CA 94550** |
| Field Contact Name* | **Brian Diregolo** |
| Field Contact 24-hour Phone/Pager* | **925-961-7952** |

## Project Description

| | |
|---|---|
| Description of Objectives* | **Use prescribed burns to reduce the threat of unwanted fires, manage and enhance plant biodiversity and wildlife habitats, to assure minimal impacts on the environment and cultural resources, and to minimize the occurrence of unnaturally intense fires by reducing the amount of vegetation that can fuel larger, more catastrophic fires. LLNL evaluated the following burning alternatives and concluded that mowing/disking is too steep for the terrain, which is unsafe, and grazing and sterilization will cause adverse impacts to native plants onsite.** |
| Projected Burn Schedule* | **From May 2026 through August 2026** |
| Ignition start and end times* | **9 AM** to **3:30 PM** |
| Expected Duration of Project (hours or days)* | Ignition: **4 Hours**<br>Combustion: **1 Hour**<br>Burndown: **1 Hour** |

## Review Burn Blocks

| Project 17 (Plot 16W) | | | |
|---|---|---|---|
| **Acreage and Fuels Information** | | | |
| Name | Acres | Unit Type | Fuel Condition |
| **Project 17 (Plot 16W)** | **132** | **Broadcast** | **This plot is characterized as ungrazed perennial (native) grassland, with natural standing. The average height of the grass is 12-16 inches.** |

| Location Information | | | | |
|---|---|---|---|---|
| Legal Description | Latitude* | Longitude* | Mean Elevation (ft)* | County |
| **Plot 16W** | **37.663503** | **-121.571637** | **1391** | **Alameda** |

| Fuel and PM10 Emissions Information | | | | | | |
|---|---|---|---|---|---|---|
| Vegetation | % Consumption | Acres | Fuel Loading | Total Tonnage | PM10 per Ton | PM10 per Type |
| **Grass/Forb** | **100** | **132** | **1** | **132** | **0.007** | **0.92** |
| Totals | -- | **132** | -- | **132** | -- | **0.92** |

| Ignition Prescription | | | | |
|---|---|---|---|---|
| Wind Speed (mph) | Wind Direction | Mixing Height (ft) | Temperature (F) | Relative Humidity (%) |
| **0-20** | **0-360** | **min. 500 feet above ground level** | **50-100** | **15-75** |

| Smoke Sensitive Receptors |
|---|
| No SSAs have been entered. |

## Project 16 (Plot 11)

| Acreage and Fuels Information | | | |
|---|---|---|---|
| Name | Acres | Unit Type | Fuel Condition |
| **Project 16 (Plot 11)** | **7** | **Broadcast** | **This plot is characterized as ungrazed perennial (native) grassland, with natural standing. The average height of the grass is 12-16 inches.** |

| Location Information | | | | |
|---|---|---|---|---|
| Legal Description | Latitude* | Longitude* | Mean Elevation (ft)* | County |
| **Plot 11** | **37.640086** | **-121.580062** | **750** | **Alameda** |

| Fuel and PM10 Emissions Information | | | | | | |
|---|---|---|---|---|---|---|
| Vegetation | % Consumption | Acres | Fuel Loading | Total Tonnage | PM10 per Ton | PM10 per Type |
| **Grass/Forb** | **100** | **7** | **1** | **7** | **0.007** | **0.05** |
| Totals | -- | **7** | -- | **7** | -- | **0.05** |

| Ignition Prescription | | | | |
|---|---|---|---|---|
| Wind Speed (mph) | Wind Direction | Mixing Height (ft) | Temperature (F) | Relative Humidity (%) |
| **0-20** | **0-360** | **min. 500 feet above ground level** | **50-100** | **15-75** |

| Smoke Sensitive Receptors |
|---|
| No SSAs have been entered. |

## Smoke Management Components

Specifications for monitoring and verification of meteorological conditions and smoke behavior before and during the burn:

**All burns will be conducted with personnel and equipment as set forth in the Alameda County Policy (Site 300 Prescribed Burn). A minimum of ten chief officers, captains, and firefighters will be present at all burns. The incident Commander will manage the project in a manner that will minimize impact to sensitive areas and the public. The project size, firing tactics, and burn duration will be adjusted to meet these goals. LLNL will submit ignition authorization request the day prior to each burn via the PFIRS. LLNL will obtain a spot weather forecast from the National Weather Service the day before any burn.**

Specifications for disseminating project information to the public:

**In advance of burn activities, the Office of Government and External Affairs at LLNL notifies neighbors and nearby residents of Site 300 of the intent to perform the burn projects. This notification is conducted by mail, local libraries, web using current contact information, and social media platforms such as LinkedIn, Twitter, etc. LLNL points of contact are provided along with the LLNL representative so individual questions or concerns can be addressed.**

What contingency actions will be taken during the burn to reduce exposure if smoke intrusions impact any sensitive receptor areas?

| | |
|---|---|
| X | Halt ignition, except as needed to maintain control of fire |
| | Allow fire to burn to contingency control lines |
| X | Suppress fire |
| | Begin immediate mop up |
| | Begin mop up within hours of problem identification |
| | Complete mop up within hours of initiation |
| | Discontinue mop up if favorable conditions return |
| X | Other (explain) **Reduce the size of the burn plot by developing new control lines. Initiate mop-up operations once fire is controlled. Focus suppression and mop-up operations on the area of greater smoke production.** |

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## Project Maps and Documents

A map must be attached to this Smoke Management Plan that identifies nearby smoke sensitive areas, burn unit perimeters, available interior control lines (if suitable for this project), and areas subject to smoke inversions due to the burn project. Also, the map must indicate estimated path of unacceptable smoke transport. (map opens in new tab)

View units on Google Maps: Google Map

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## Smoke Management Plan History

| | |
|---|---|
| Approval letter: | No approval letter has been attached. |

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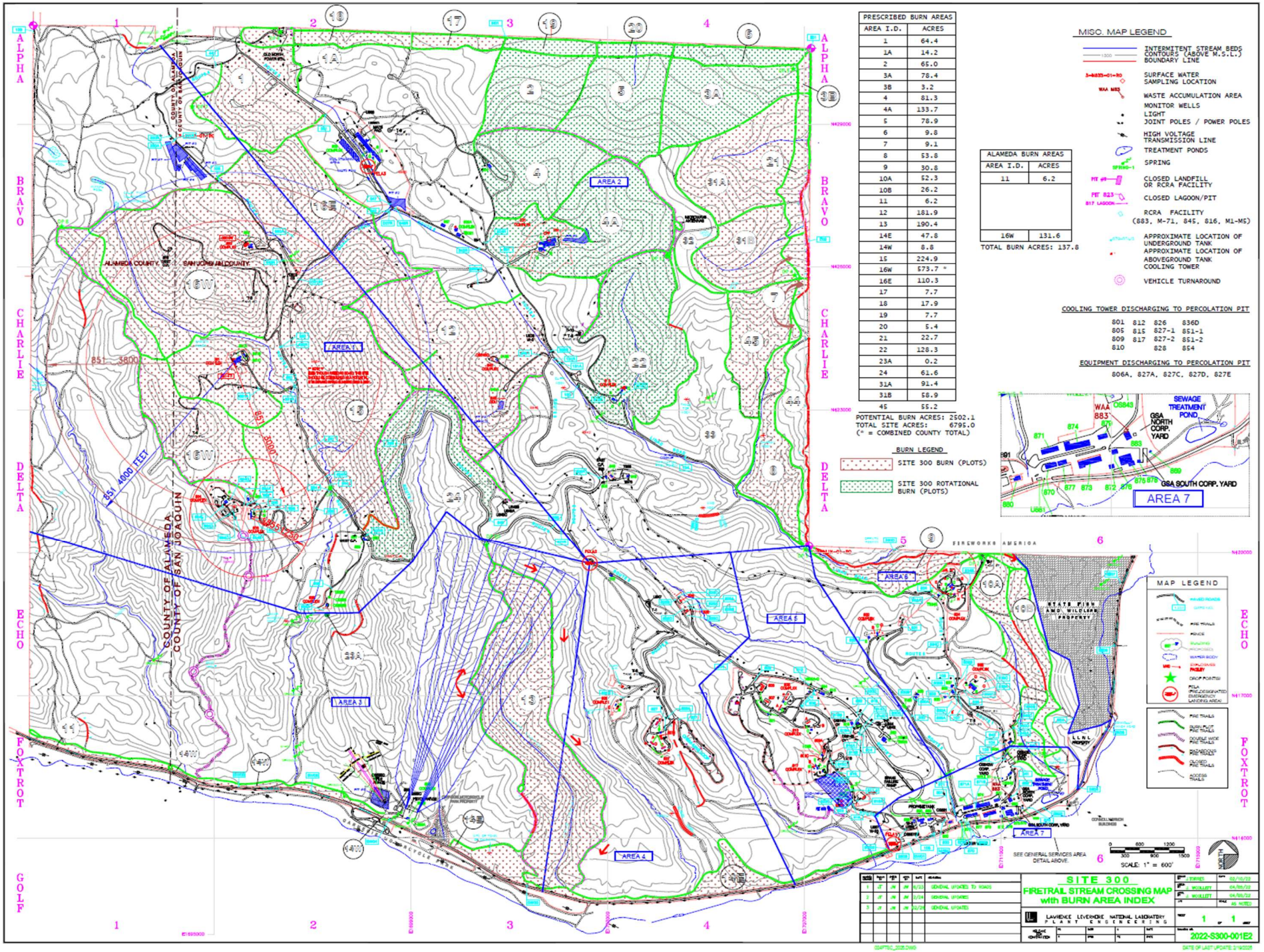


| PRESCRIBED BURN AREAS | |
|---|---|
| AREA I.D. | ACRES |
| 1 | 64.4 |
| 1A | 14.2 |
| 2 | 65.0 |
| 3A | 78.4 |
| 3B | 3.2 |
| 4 | 81.3 |
| 4A | 133.7 |
| 5 | 78.9 |
| 6 | 9.8 |
| 7 | 9.1 |
| 8 | 53.8 |
| 9 | 30.8 |
| 10A | 52.3 |
| 10B | 26.2 |
| 11 | 6.2 |
| 12 | 181.9 |
| 13 | 190.4 |
| 14E | 47.8 |
| 14W | 8.8 |
| 15 | 224.9 |
| 16W | 573.7 * |
| 16E | 110.3 |
| 17 | 7.7 |
| 18 | 17.9 |
| 19 | 7.7 |
| 20 | 5.4 |
| 21 | 22.7 |
| 22 | 128.3 |
| 23A | 0.2 |
| 24 | 61.6 |
| 31A | 91.4 |
| 31B | 58.9 |
| 45 | 55.2 |

POTENTIAL BURN ACRES: 2502.1
TOTAL SITE ACRES: 6795.0
(* = COMBINED COUNTY TOTAL)

BURN LEGEND
SITE 300 BURN (PLOTS)
SITE 300 ROTATIONAL BURN (PLOTS)

| ALAMEDA BURN AREAS | |
|---|---|
| AREA I.D. | ACRES |
| 11 | 6.2 |
| | |
| | |
| 16W | 131.6 |

TOTAL BURN ACRES: 137.8

MISC. MAP LEGEND
INTERMITTENT STREAM BEDS
CONTOURS (ABOVE M.S.L.)
BOUNDARY LINE
SURFACE WATER SAMPLING LOCATION
WASTE ACCUMULATION AREA
MONITOR WELLS
LIGHT
JOINT POLES / POWER POLES
HIGH VOLTAGE TRANSMISSION LINE
TREATMENT PONDS
SPRING
CLOSED LANDFILL OR RCRA FACILITY
CLOSED LAGOON/PIT
RCRA FACILITY (883, M-71, 845, 816, M1-MS)
APPROXIMATE LOCATION OF UNDERGROUND TANK
APPROXIMATE LOCATION OF ABOVEGROUND TANK
COOLING TOWER
VEHICLE TURNAROUND

COOLING TOWER DISCHARGING TO PERCOLATION PIT

| | | | |
|---|---|---|---|
| 801 | 812 | 826 | 836D |
| 805 | 815 | 827-1 | 851-1 |
| 809 | 817 | 827-2 | 851-2 |
| 810 | | 828 | 854 |

EQUIPMENT DISCHARGING TO PERCOLATION PIT
806A, 827A, 827C, 827D, 827E

MAP LEGEND

SEE GENERAL SERVICES AREA DETAIL ABOVE.

SITE 300
FIRETRAIL STREAM CROSSING MAP with BURN AREA INDEX

LAWRENCE LIVERMORE NATIONAL LABORATORY
PLANT ENGINEERING

2022-S300-001E2