

LA-UR-20-26508

Approved for public release; distribution is unlimited.

IDEA ID No. 856 – Los Alamos National Laboratory, Permit # 2195, Exemption Notice for Thirty Small Fuel-Burning Units Title:

Author(s): Carretti, Vincent Anthony

Intended for: **Environmental Regulatory Document**

Issued: 2020-09-02 (rev.1)





Environment, Safety, Health, Quality, Safeguards, and Security PO Box 1663, K491 Los Alamos, New Mexico 87545 (505) 667-4218

Symbol: ESHQSS:20-052

LAUR: 20-26508

Locates Action No: N/A

Date: AUG 3 1 2020

Mr. Ted Schooley
Permitting Section Chief
New Mexico Environment Department, Air Quality Bureau
525 Camino de los Marquez, Suite 1
Santa Fe, NM 87505-1816

Subject: IDEA ID No. 856 – Los Alamos National Laboratory, Permit # 2195, Exemption

Notice for Thirty Small Fuel-Burning Units

Dear Mr. Schooley:

In accordance with the requirements of 20.2.72 NMAC Section 219 A.1.e for administrative permit revisions, Los Alamos National Laboratory (LANL) is providing notification to incorporate thirty (30) exempt sources as defined in Section 202.B.1.a.

The applicable exemption is Section 202.B.1(a) which states:

Fuel burning equipment which is used solely for heating buildings for personal comfort or for producing hot water for personal use and which:

(a) Uses gaseous fuel and has a design rate less than or equal to five (5) million BTU per hour

We request these exempt units be placed on the Air Quality Permit #2195 as an administrative revision (2195 R-82). If you have any questions, please feel free to contact Aaron Dailey, (Triad) at (505) 667-7276.

These small boilers and heaters will be included in our small boiler pool, and emissions from these units will be included in our emissions reporting for small boilers, and subject to emission limits in Table 802.A of our Title V Operating Permit P100-R2M4.

The exempt units are listed in the following table. The listed units all use pipeline quality natural gas as fuel and have a design rate of less than five (5) million BTU per hour.



New Exempt Fuel Burning Units at Los Alamos National Laboratory

Description	Make	Model No.	Capacity (MMbtu/hr)	Serial No.	Location
Gas-Fired Heater	Trane	GRAA80PFNF0	0.8	F18H05513	TA-48-0001
Gas-Fired Boiler	Laars Neotherm	NTH-399	0.3999	G19451673	TA-59-0003
Gas-Fired Boiler	Laars Neotherm	NTH-399	0.3999	G19451682	TA-52-0033
Gas-Fired Heater	Aerotech Herman Nelson	BT400-NEX-D	0.4	6224	TA-36-0012
Gas-Fired HVAC	Trane	YCH360B4P-7C2EJ1-0	0.42	C19D02773	TA-35-0128
Gas-Fired HVAC	Coleman	ZQG06E2B1AA1A111A2	0.112	1G9128751	TA-16-0016
Gas-Fired Heater	Re-Verber Ray	DR 30 NFS-2 120V	0.03	1908mech198530 001	TA-60-0001
Gas-Fired Heater	Re-Verber Ray	DR 30 NFS-2 120V	0.03	1908mech198530 002	TA-60-0001
Gas-Fired Heater	Re-Verber Ray	DR 30 NFS-2 120V	0.03	1908mech198530 003	TA-60-0001
Gas-Fired Heater	Re-Verber Ray	DR 30 NFS-2 120V	0.03	1911mech201281 0002	TA-60-0001
Gas-Fired Heater	Reznor	UDAP-175	0.075	BSJ3062075755	TA-53-0002
Gas-Fired Heater	HEIL	N80ESN/L 1352420	0.132	A19330901	TA-53-0526
Gas-Fired HVAC	Trane	YHC036E4RZA1T02C1A1	0.12	194911276L	TA-16-0202
Gas-Fired Heater	Re-Verber Ray	DR 30 NFS-2 120V	0.03	1910mech199179 0001	TA-60-0001
Gas-Fired Heater	Modine	HD45AS0111FBAN	0.045	30010017053818- 2777	TA-53-0364
Gas-Fired Heater	HEIL	N80ESN0901714	0.088	A195014817	TA-53-0400
Gas-Fired Boiler	Aerco Benchmark	BMK 1000 GWBF9	1.0	G-20-0789	TA-53-0001
Gas-Fired Boiler	Aerco Benchmark	BMK 1000 GWBF9	1.0	G-20-0924	TA-53-0001
Gas-Fired Boiler	Aerco Benchmark	BMK 1000 GWBF9	1.0	G-20-0788	TA-53-0001
Gas-Fired Boiler	Aerco Benchmark	BMK 1000 GWBF9	1.0	G-20-0790	TA-53-0001
Gas-Fired Boiler	Aerco Benchmark	BMK 2500 GWBF3	2.5	G-20-0146	TA-35-0126
Gas-Fired HVAC	Trane	YCD420B4	0.6	C20C02255	TA-43-0001
Gas-Fired HVAC	Trane	YCD420B4	0.6	C20C02256	TA-43-0001

			Capacity		
Description	Make	Model No.	(MMbtu/hr)	Serial No.	Location
Gas-Fired HVAC	Trane	YSC090H4R	0.25	201510564L	TA-43-0001
Gas-Fired Heater	Reznor	UDAP-45	0.045	BSK3062084477	TA-53-0002
Gas-Fired Heater	Trane	GRAA40PF	0.4	F20D02236	TA-60-0017
Gas-Fired Heater	Co-Ray-Vac	CRV-A4	0.04	170649	TA-35-0301
	Laars				
Gas-Fired Boiler	Neotherm	RHCH1200NACF2EXX	1.2	A20301826	TA-60-0002
Gas-Fired HVAC	Trane	YZD180F4R	0.196	20271016sd	TA-48-0001
	Aerco				
Gas-Fired Boiler	Benchmark	BMK 2500 GWBF3	2.5	G-20-0163	TA-03-0502

In accordance with Section 203.A.12, I hereby certify on behalf of LANL that the information submitted in this notification is as complete, true, and accurate as possible, to the best of my personal knowledge.

Sincerely,

Taunia S. Van Valkenburg

Group Leader

Environmental Compliance Programs

Triad National Security, LLC

TVV/AMD/VAC:jdm

Attachment(s): Attachment 1 Air Quality Administrative Revision for Thirty Small Fuel-Burning Units

Copy: Adrienne L. Nash, NA-LA, adrienne.nash@nnsa.doe.gov

Silas DeRoma, NA-LA, silas.deroma@nnsa.doe.gov

Stephen N. Jochem, NA-LA, stephen.jochem@nnsa.doe.gov

Michael W. Hazen, Triad, ALDESHQSS, mhazen@lanl.gov

Jennifer E. Payne, Triad, EPC-DO, jpayne@lanl.gov

Enrique Torres, Triad, EWP, etorres@lanl.gov

Timothy A. Dolan, Triad, GC-ESH, tdolan@lanl.gov

Aaron M. Dailey, Triad, EPC-CP, adailey@lanl.gov

Marjorie B. Stockton, Triad, EPC-CP, mstockton@lanl.gov

Vincent A. Carretti, Triad, EPC-CP, vcarretti@lanl.gov



ESHQSS: 20-052 Mr. Ted Schooley

Page 4

lasomailbox@nnsa.doe.gov locatesteam@lanl.gov epccorrespondence@lanl.gov aldeshqsscorrespondence@lanl.gov Triad, EPC-CP Permit Application File



ATTACHMENT 1

Air Quality Administrative Revision for Thirty Small Fuel-Burning Units

ESHQSS: 20-052

LA-UR-20-26508

Date: _____AUG 3 1 2020

Permitting Administrative Multi-Form

Use for NSR administrative permit revisions (including GCPs), TV administrative amendments, TV responsible official notifications, and other submittals required by a permit condition. Refer to Section 4 for instructions, acronyms, and mailing addresses.

For	Department use only:		N MEX	·>	For Depart		only:
Rev	viewed by:		\ \	6	Received Da	ate	
Per	mit revision number:		T Z) L N 1			
Dat	te:		THO NMENT DEP	12			
	Approved Completed	Denied	MENT DEL				
Sec	tion 1: General Informat	ion – Re	equired for A	ll Sub	mittals		
1	Facility Name: Los Alamos 1	National L	aboratory				
2	Preparer/Consultant Name: \	incent A.	Carretti		Title: Environmental Professional – Air Quality		
3	Email: vcarretti@lanl.gov				Phone: (505)	665-1658	
4	Address: P.O. Box 1663, MS	J978, Lo	s Alamos, NM	87545			
5	Air Permit Contact: Aaron M. Dailey				Title: Meteorology & Air Quality Team Leader		
6	Email: adailey@lanl.gov				Phone: (505) 667-7276		
7	Address: P.O. Box 1663, MS	J978, Lo	s Alamos, NM	87545			
8	Check all boxes below for which this submittal applies:		:	AI #: 856		Permit #: 2195	
\boxtimes	NSR Construction Permit ☐ NOI (20.2.73 NMAC)				□ PSD P	ermit (20.2.74	
1 ').2.72 NMAC)	`	s 2-B, 2-D)			NMAC)	
	TV Operating Permit		e of Exemption	`			
$\lfloor (20) \rfloor$).2.70 NMAC)	NMAC)	(Section 2-F)			(20.2.79)	NMAC)
Sec	tion 2: Details of Submit	tal		16			
	Only print and submit the p short end (tablet). The Permit to denials of NSR administrati that the Department received to	Section re ve revision	esponds to all TV ons. Courier proc	Admi of of de	nistrative ame livery is requi	ndments a red if you	nd responds only want confirmation
	☐ 2-A(i) & 2-A(ii): Identical Engine or Turbine Replacements						
	☐ 2-B: Owner, Operator, and Name Changes to NOIs or Construction Permits		ges to	(NPR) Facilities ☐ 2-G: Add Minor NSR Exempt Equipment to			
for	☐ 2-C: Ownership or Operational Control Changes for Title V Permits		Changes	Construction Permits for PSD or Nonattainment Sources			*
	☐ 2-D: Closing a Facility or Removing Units from a Permit		☐ 2-H: Title V Responsible Official Designations ☐ 2-I: Submittals to the Permit Programs Manager				
	2-E: Correct Typographical E	rror		TO THE REAL PROPERTY.	22 22 20 20 20		uired for All Changes

Section 2-F: Reporting Exempt Equipment for Minor Construction Permits or for No Permit Required (NPR) Facilities

Certain equipment can be added to minor construction permits as exempt equipment under 20.2.72.202.B NMAC as an administrative permit revision. (This exemption does not apply to facilities subject to 20.2.70 NMAC (TV), 20.2.74 NMAC (PSD), or 20.2.79 NMAC Nonattainment Sources. In those cases, use Section 2-G of this form.)

Construction permit Part 72 exemptions are not the same as operating permit TV insignificant activities (20.2.70.7.Q NMAC). If you have a TV permit and want to claim <u>Title V insignificant activities</u>, they may be required to have authorization through a construction permit. Only the insignificant activities that meet the requirements of 20.2.72.202.B NMAC may be added using this form for an administrative permit revision.

The Potential to Emit (PTE) of regulated air contaminants from minor permit exempt equipment count toward the facility's total emissions under the PSD, nonattainment, and TV regulations therefore, the addition of equipment using this form could possibly result in the facility becoming PSD, Nonattainment, or TV major.

Check the box(es) to indicate if your facility has a permit or is a no permit required (NPR) facility, check the box(es) for the equipment being added, and complete the table(s), if applicable. Include attachments as required.

Administrative Revision: This facility has a minor construction permit as designated in Section 1 of this application. This form is being submitted to add a piece(s) of equipment that qualifies as exempt under 20.2.72.202.B NMAC.

or

☐ Notice of Exemption: This facility does not require a 20.2.72 NMAC permit, so it is designated as a no
permit required (NPR) facility. This exemption form is being submitted to record that this equipment qualifies
as exempt under 20.2.72.202.B NMAC. (This exemption does not apply to (cannot be added to) NOI (20.2.73
NMAC), TV (20.2.70 NMAC), PSD (20.2.74 NMAC), or nonattainment (20.2.79 NMAC) facilities.)

AQB used to require either the Notice of Exemption Form or Exemption Application Form for these facilities. This form replaces both of those forms.

Only fill out the information in this table if your facility is an NPR facility, we already have the information for permitted sites.

Facility Name:	Plant primary SIC Code (4 digits):			
	Plant NAICS code (6 digits):			
Facility Street Address (If no facility street address, provide directions from a prominent landmark):				
Company Name:	Phone:			
Company Mailing Address:				
Air Contact:	Title:			
Email:	Phone:			

The facility is: (distance) miles (direction) of (nearest New Mexico town or tribal community).	Zip Code:	County:				
Status of land (check one):						
☐ Private ☐ Indian/Pueblo ☐ Federal BLM ☐ Federal Forest Service ☐ State Land ☐ Bernalillo County						

Section 2-F: Reporting Exempt Equipment for Minor Construction Permits or for No Permit Required (NPR) Facilities, continued

Minor Construction Permit (Part 72) or NPR Exempt Equipment

The equipment checked in this section meets the requirements of the exemption in 20.2.72.202 NMAC, will comply with all applicable federal requirements in 40 CFR Part 60 (NSPS) or 40 CFR Part 63 (MACT), and appropriate records will be created and retained for two (2) years (or five (5) years if a TV source):

Standby	Genera	ators
---------	--------	-------

☐ Standby generators which are operated only during the unavoidable loss of commercial utility power and less
than 500 hours per year. (20.2.72.202.B(3) NMAC). Potentially applicable federal regulations: 40 CFR 63
Subpart ZZZZ and 40 CFR 60 Subparts JJJJ or IIII. Emission rates from emergency standby generators should
be calculated assuming operation throughout the year (i.e., 8760 hours per year) to verify that it does not make
your facility PSD, Nonattainment, or TV major.

Standby Generator Manufacturer	Serial Number	Date of Manufacture	Date of Installation ¹	Capacity (hp)
Name of commercial po	ower provider ² :		<i>"</i>	

Date of installation is the date the engine is placed and secured at the location where it is intended to be operated.

Abrasive Blasting

☐ Enclosed abrasive blasting operations; if no visible emissions from the building. (20.2.72.202.B(7) NMAC)
Potentially applicable federal regulations: 40 CFR 63 Subpart XXXXXX - National Emission Standards for
Hazardous Air Pollutants Area Source Standards for Nine Metal Fabrication and Finishing Source Categories.
More information: www.env.nm.gov/air-quality/ind-sector-info/.

Surface Coating

☐ Surface coating of equipment, including spray painting, roll coating, and painting with aerosol spray cans
and all coating and clean-up solvent; if VOCs from paints and solvents do not exceed ten (10) pounds per hour
and two (2) tons per year. (20.2.72.202.B(6) NMAC). Potentially applicable federal regulations (more
information: www.env.nm.gov/air-quality/ind-sector-info/):

40 CFR 63 Subpart HHHHHHH - National Emission Standards for Hazardous Air Pollutants: Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources or

40 CFR 63 Subpart XXXXXX - National Emission Standards for Hazardous Air Pollutants Area Source Standards for Nine Metal Fabrication and Finishing Source Categories.

Volatile Organic Compound (VOC) Handling and or Storage

□ VOC emissions resulting from the handling or storing of any VOC emission source; if vapor pressure is l	less
than two tenths (0.2) PSI at the storage and handling temperatures. (20.2.72.202.B(2) NMAC).	

² Commercial power is purchased from a utility company, which specifically does not include power generated on-site for the sole purse of the user.

Fuel Burning Equipment

⊠ Fuel burning equipment used solely for heating buildings for personal comfort or producing hot water for personal use; if gaseous or liquid fuel and rated 5 MMBtu or less, or if distillate oil and 1 MMBtu or less. (20.2.72.202.B(1) NMAC).

See table below:

			Capacity		
Description	Make	Model No.	(MMbtu/hr)	Serial No.	Location
Gas-Fired Heater	Trane	GRAA80PFNF0	0.8	F18H05513	TA-48-0001
	Laars				
Gas-Fired Boiler	Neotherm	NTH-399	0.3999	G19451673	TA-59-0003
	Laars				
Gas-Fired Boiler	Neotherm	NTH-399	0.3999	G19451682	TA-52-0033
	Aerotech				
Gas-Fired Heater	Herman Nelson	BT400-NEX-D	0.4	6224	TA-36-0012
Gas-Fired HVAC		YCH360B4P-7C2EJ1-0	0.42		-
Gas-Fired HVAC	Trane			C19D02773	TA-35-0128
Gas-rifeu nvac	Coleman Re-Verber	ZQG06E2B1AA1A111A2	0.112	1G9128751 1908mech198530	TA-16-0016
Gas-Fired Heater	Re-verber Ray	DR 30 NFS-2 120V	0.03	001	TA-60-0001
Gas-Filed Fleater	Re-Verber	DK 30 N 3-2 120V	0.03	1908mech198530	1A-00-0001
Gas-Fired Heater	Ray	DR 30 NFS-2 120V	0.03	002	TA-60-0001
	Re-Verber			1908mech198530	
Gas-Fired Heater	Ray	DR 30 NFS-2 120V	0.03	003	TA-60-0001
	Re-Verber			1911mech201281	
Gas-Fired Heater	Ray	DR 30 NFS-2 120V	0.03	0002	TA-60-0001
Gas-Fired Heater	Reznor	UDAP-175	0.075	BSJ3062075755	TA-53-0002
Gas-Fired Heater	HEIL	N80ESN/L 1352420	0.132	A19330901	TA-53-0526
Gas-Fired HVAC	Trane	YHC036E4RZA1T02C1A1	0.12	194911276L	TA-16-0202
	Re-Verber			1910mech199179	
Gas-Fired Heater	Ray	DR 30 NFS-2 120V	0.03	0001	TA-60-0001
				30010017053818-	
Gas-Fired Heater	Modine	HD45AS0111FBAN	0.045	2777	TA-53-0364
Gas-Fired Heater	HEIL	N80ESN0901714	0.088	A195014817	TA-53-0400
	Aerco				
Gas-Fired Boiler	Benchmark	BMK 1000 GWBF9	1.0	G-20-0789	TA-53-0001
G 5: 10 !!	Aerco	DAME 4000 CHARGO	4.0	6 20 2024	TA 53 0004
Gas-Fired Boiler	Benchmark	BMK 1000 GWBF9	1.0	G-20-0924	TA-53-0001
Gas-Fired Boiler	Aerco Benchmark	BMK 1000 GWBF9	1.0	G-20-0788	TA-53-0001
Gas-Fired Boller	Aerco	DIAIK TOOD GAADLA	1.0	G-20-0766	1A-33-0001
Gas-Fired Boiler	Benchmark	BMK 1000 GWBF9	1.0	G-20-0790	TA-53-0001
Jab i ii ca bolici	Aerco	D.I.I. 2000 01101 3	1.0	3 20 0/30	55 0001
Gas-Fired Boiler	Benchmark	BMK 2500 GWBF3	2.5	G-20-0146	TA-35-0126
Gas-Fired HVAC	Trane	YCD420B4	0.6	C20C02255	TA-43-0001
Gas-Fired HVAC	Trane	YCD420B4	0.6	C20C02256	TA-43-0001

Description	Make	Model No.	Capacity (MMbtu/hr)	Serial No.	Location
Gas-Fired HVAC	Trane	YSC090H4R	0.25	201510564L	TA-43-0001
Gas-Fired Heater	Reznor	UDAP-45	0.045	BSK3062084477	TA-53-0002
Gas-Fired Heater	Trane	GRAA40PF	0.4	F20D02236	TA-60-0017
Gas-Fired Heater	Co-Ray-Vac	CRV-A4	0.04	170649	TA-35-0301
Gas-Fired Boiler	Laars Neotherm	RHCH1200NACF2EXX	1.2	A20301826	TA-60-0002
Gas-Fired HVAC	Trane	YZD180F4R	0.196	20271016sd	TA-48-0001
Gas-Fired Boiler	Aerco Benchmark	BMK 2500 GWBF3	2.5	G-20-0163	TA-03-0502

Repositioning Sources at Plant

□ Repositioning or relocating sources of air emissions or emissions points within the plant site, but only when such change in physical configuration does not increase air emissions or the ambient impacts. (20.2.72.B(4) NMAC). Attach an updated plot plan. Permittees must ensure that relocation of any emissions source within the plant site does **not** increase the ambient impact and will not result in an exceedance of any National Ambient Air Quality Standard (NAAQS), New Mexico Ambient Air Quality Standard (NMAAQS), or PSD Increment. If not sure, please contact the Modeling Section Manager (505-476-4300).

Emissions Exempted Based on Quantity

 \square Any emissions unit, operation, or activity that has the potential to emit no more than one-half (1/2) ton per year of any regulated new source review pollutant. Units, operations, or activities of similar function shall be combined when calculating the emission rate. (20.2.72.202.B(5) NMAC).

Unit Description	Serial Number	Capacity (size)	Regulated Pollutants Emitted ³	PER ⁴ tpy

³ Particulate Matter (PM, PM₁₀, PM_{2.5}); Sulfur Dioxide (SO₂); Carbon Monoxide (CO); Nitrogen Dioxide (NO₂); Hydrogen Sulfide (H₂S); Lead (Pb); Total Reduced Sulfur; and Volatile Organic Compounds (VOC).

4/2/2019

⁴ Potential emission rate, as defined in 20.2.72 NMAC. The PER is the worst-case emission rate of the facility without controls or other limitations (unless the controls or limitations are federally enforceable) and as if the facility were operating continuously 8760 hours per year (24 hour/day, 365 days/year).

Section 3: Certification – Required for All Applications

Company Name: <u>Triad National Security, LLC</u>		
I, <u>Taunia S. Van Valkenburg</u> , hereby certify are true and as accurate as possible, to the best of a Signed this <u>31</u> day of <u>August</u>	my knowledge and professional expe	rtise and experience.
notary of the State of New Mexico . Signature 1	8/31/2020 Date	
Taunia S. Van Valkenburg Printed Name	Group Leader Title	
Scribed and sworn before me on this da	y of August,	2020.
My authorization as a notary of the State of	New Mexico	expires on the
12 day of June	2023	
By Brohong Notary's Signature	August 31,2020 Date	
Barbane J Bushong Notary's Printed Name		
¹ For Title V applications, the signature must be of the Responsible Official as defined in 20.2.70.7.AE NMAC:		POH.