

**NASA GSFC Wallops Flight Facility
Island/Mainland Air Permit Equipment List, Permit 40909**

Processing, Manufacturing, Surface Coating and Degreasing Operations to be Added to the Permit

Unit Ref. No.	Process or Operation Name	Equipment Manufacturer, Type, and Model Number	Date of Manuf .	Date of Const.	Max. Rated Capacity (___/hr)*	Requested Throughput*			Federal Regulations that Apply
						(___/hr)	(___/day)	(___/yr)	
X-30-02	Grit-blasting for paint and corrosion removal at X-30, Pad 5, and various other locations with best management practices.	N/A	N/A	2016 or 2017	1050 lb/hr	1050 lb/hr	8400 lb/day	157.5 tons /year	40CFRPart 50
V-55-04	Hydrazine fueling activities for orbital rockets	N/A	N/A	2012	0.00637 lb/hr	0.00858 lb/hr	0.0236 lb/day	0.0185 tons/yr	40CFRPart 61

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Equipment to be Removed from this Permit

Unit Ref. Number	Equipment Description	Rated Capacity	Original Permit Date
X-79-04	One (1) LPG fired air makeup- Innovent E-Laser-2B	0.40 mmBtu/hr	2/21/2013
X-15-1	One (1) – Distillate oil-fired boiler- HB Smith, Series 19-9	0.744 MMBTU/hr	10/5/2004
U-55	One (1) – Distillate oil-fired boiler – Burnham, V9A/V11, Installed 2005	0.218 MMBTU/hr	Unknown
U-70	One (1) – Distillate oil-fired boiler – HB Smith, unknown model, Installed 1995	0.420 MMBTU/hr	10/5/2004
W-40	One (1) – Distillate oil-fired boiler – Weil Mclain ABL6765W	0.500 MMBTU/hr	10/5/2004
V-45	One (1) – Distillate oil-fired boiler – HB Smith 2000L4SEC, Installed 1990	0.350 MMBTU/hr	10/5/2004
V-50	One (1) – Distillate oil-fired boiler – HB Smith, unknown model, Installed 1990	0.175 MMBTU/hr	10/5/2004
V-55	One (1) – Distillate oil-fired boiler – Burnham PV904WOB	0.483 MMBTU/hr	Unknown
W-15	One (1) – Distillate oil-fired boiler – Weil Mclain BL-688- WS, Installed 1992	1.650 MMBTU/hr	10/5/2004
W-65	One (1) – Distillate oil-fired boiler – Cleaver Brooks CB100- 50, Installed 1992	2.1 MMBTU/hr	10/5/2004
W-100	One (1) – Distillate oil-fired boiler – Burnham PF307	0.994 MMBTU/hr	Unknown
X-35	One (1) – Distillate oil-fired boiler – Bryan AB120-W-FDO, Installed 1994	1.200 MMBTU/hr	10/5/2004

X-75	One (1) – Distillate oil-fired boiler – HB Smith, BB14, Installed 1990	0.168 MMBTU/hr	Unknown
X-85	One (1) – Distillate oil-fired boiler – HB Smith, Series 14-6, Installed 1995	0.526 MMBTU/hr	Unknown
Y-15	One (1) – Distillate oil-fired boiler – HB Smith Series 19-9, Installed 1996	1.190 MMBTU/hr	10/5/2004
Y-55	One (1) – Distillate oil-fired boiler – Peerless ECT-05-0200-WU	0.241 MMBTU/hr	Unknown
Y-60	One (1) – Distillate oil-fired boiler – Peerless SC-06, Installed 1993	0.405 MMBTU/hr	Unknown
Z-41-1	One (1) – Distillate oil-fired boiler – Cleaver Brooks, CB100-40, Installed 1991	1.680 MMBTU/hr	10/5/2004
U-25	One (1) – LPG-fired generator – Generac	15 kW	Unknown
X-15-2	One (1) – Diesel-fired generator – Kohler 30ROZJ81 – 30 HP	0.329 MMBTU/hr	10/5/2004
X-76	One (1) – Diesel-fired generator – Kohler 40ROZJ81 – 40 HP	0.378 MMBTU/hr	10/5/2004
X-5	One (1) – LPG-fired furnace, Modine PA200SF	0.152 MMBTU/hr	10/5/2004
Y-15-2	Ground serving equipment (GSE) for hydrazine fueling of NFIRE spacecraft	---	Previously listed as exempt (2/10/2014)
Z-41-2	One (1) Diesel-powered emergency generator – Isuzu Model #3LD1; Serial #449602. Mfg 2005 (MACT ZZZZ)	15.5 kW	Previously listed as exempt (2/10/2014)
V-55-02	One (1) LPG fired water heater – Nortiz Model NC250	0.25 mmBtu/hr	2/21/2013

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Equipment to be Exempt from this Permit

Unit Ref. Number	Equipment Description	Rated Capacity	Exemption Citation
W-40-01 X-35-02	Welding operations located in buildings W-40 and X-35.	10 lbs/year	9VAC5-80-720A
X-35-01	One (1) LPG fired boiler – Fulton, Model PHW-2000	2 MMBtu/hr	9VAC5-80-1105
X-79-04	One (1) Greenheck Air Handler with LPG-fired reheat, Model PVF150	0.150 MMBtu/hr	9VAC5-80-720A
X-35-01	One (1) LPG fired boiler – Fulton, Model PHW-2000	2.00MBTU/hr	9VAC5-80-720C
Z-62-01	One (1) – Diesel powered emergency generator – Isuzu, Model 3DL1	15.5 kW	9VAC5-80-720-C
V-62-01	One (1) – Diesel powered emergency generator – Isuzu, Model 3DL1	15.5 kW	9VAC5-80-720.C
X-15-01 X-15-02 X-15-03 X-15-04	Four (4) – Propane fired infrared heater – Space-Ray, Unknown Model	< 0.250 mmBtu/hr (each), < 1.00 mmBtu/hr total	9VAC5-80-720
V-27-03 V-27-04 V-27-05 V-27-06	Four (4) – Propane fired infrared heater – Superior Radiant Product, Model TXR-125	0.125 mmBtu/hr (each), 0.500 mmBtu/hr total	9VAC5-80-720
V-27-01 V-27-02	Two (2) – Propane fired tank-less water heater – Rinnai, Model C199i	0.398 mmBtu/hr	9VAC5-80-720
U-12-03 U-12-04	Two (2) #2 Fuel Oil above-ground storage tanks	20,000 gallons (each)	9VAC5-80-1105.B.8.e (exempt under previous permit)
U-30-02	One (1) #2 Fuel Oil above-ground storage tank	2,000 gallons	9VAC5-80-1105.B.8.e

U-48-02	One (1) #2 Fuel Oil above-ground storage tank	500 gallons	9VAC5-80-1105.B.8.e
U-65-02	One (1) #2 Fuel Oil above-ground storage tank	1,000 gallons	9VAC5-80-1105.B.8.e
V-62-02	One (1) #2 Fuel Oil above-ground storage tank	110 gallons	9VAC5-80-1105.B.8.e (exempt under previous permit)
W-20-03	One (1) #2 Fuel Oil above-ground storage tank	2,500 gallons	9VAC5-80-1105.B.8.e (exempt under previous permit)
X-16-01	One (1) #2 Fuel Oil above-ground storage tank	110 gallons	9VAC5-80-1105.B.8.e (exempt under previous permit)
X-35-03	One (1) #2 Fuel Oil above-ground storage tank	1,000 gallons	9VAC5-80-1105.B.8.e (exempt under previous permit)
Y-60-01	One (1) #2 Fuel Oil above-ground storage tank	1,000 gallons	9VAC5-80-1105.B.8.e (exempt under previous permit)
Z-62-02	One (1) #2 Fuel Oil above-ground storage tank	110 gallons	9VAC5-80-1105.B.8.e (exempt under previous permit)
U-25-01	One (1) LPG fired emergency generator – Kohler 3 REYG	30 kW	9VAC5-80-720.C
V-55-01	One (1) LPG fired boiler- Harsco Model N750MFD	0.75 mmBtu/hr	9VAC5-80-720.C
V-55-03	One (1) LPG fired humidifier – Nortic Model GSTC 200	0.248 mmBtu/hr	9VAC5-80-720.C
X-79-01 X-79-02 X-79-03	Three (3) LPG fired boiler- Fulton Pulse	1.0 mmBtu/hr Each	9VAC5-80-720.C
U-30-01	One (1) – Distillate oil-fired boiler – HB Smith, Series 19-7, Installed 1990	0.661 MMBTU/hr	9VAC5-80-720.C
W-20-01	One (1) – Distillate oil-fired boiler – Weil Mclain, unknown model, Installed 1992	0.490 MMBTU/hr	9VAC5-80-720.C
U-65-01	One (1) – Diesel-fired emergency generator – Caterpillar 3306 – 339 HP	2.110 MMBTU/hr	9VAC5-80-720.C

W-20-02	One (1) – Diesel-fired emergency generator – Kohler 15ROZJ81 – 15HP	0.141 MMBTU/hr	9VAC5-80-720.C
V-66-01	One (1) – LPG-fired emergency generator – Kohler, 80 RZG – 80 kW, Installed 2003	0.524 MMBTU/hr	9VAC5-80-720.C
U-48-01	One (1) – Fire pump powered by a Detroit Diesel Allison, PTA ISD 273	0.350 MMBTU/hr	9VAC5-80-720.A.27

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Equipment Permitted Prior to the Date of this Application			
Unit Ref. Number	Equipment Description	Rated Capacity	Original Permit Date
U-12-01 U-12-02	Two (2) Diesel fired generators – Caterpillar C175 (NSPS III MACT ZZZZ)	3000 kW Each	2/21/13
Pad 2	One (1) – test stand, equipped with different interchangeable rocket motor adapters, for the static test firing of solid rocket propellant motors	2,500 meters/sec. exhaust gas velocity	12/18/2007
X-30-01	One (1) – Paint Spray Booth	346 gallons/yr	10/5/2004