

Permit Attachment 1-A

EU 001 - Hot Water Generators / Boilers with an individual heat input rating of at least 10 MMBtu/hr

Identification/Asset Number	Location/Building	Manufacturer	Model	Serial No.	Capacity MMBtu/hr	Date Installed ¹	Date Removed	Primary Fuel	Back Up Fuel
IM-B-0002-A	VAB Utility Annex Hot Water Generator (HWG) #1 / K6-947	The International Boiler Works (IBW) Company	TJW-C-20	L-260	20	1987	N/A	Natural Gas	Liquid Fuels
IM-B-0002-B	VAB Utility Annex Hot Water Generator (HWG) #2 / K6-947	The International Boiler Works (IBW) Company	TJW-C-20	14918	20	1985	N/A	Natural Gas	Liquid Fuels
IM-B-0002-C	VAB Utility Annex Hot Water Generator (HWG) #3 / K6-947	The International Boiler Works (IBW) Company	TJW-C-20	L-319	20	1991	N/A	Natural Gas	Liquid Fuels

¹ The installation date may be an equipment installation date, facility construction date, air construction permit issue date, equipment manufactured date, or an estimated startup date provided by facility personnel.

N/A = Not Applicable

Permit Attachment 2-A
EU 091 - Surface Coating Operations

Identification/Asset Number	Location/Building	Description	Manufacturer	Model	Type of Particulate Matter Control	Date Installed ²	Date Removed
IM-P-001 A	Corrosion Control Facility / M6-1625	Corrosion Control Booth Number 1	Ralph, Hahn & Associates ¹	N/A	Filter	1992	N/A
IM-P-001 B	Corrosion Control Facility / M6-1625	Corrosion Control Booth Number 2	Ralph, Hahn & Associates ¹	N/A	Filter	1992	N/A
IM-P-002	Base Support Building / M6-0486	Spray Booth	DeVilbiss	N/A	Water wall	1972	August 2014
SK-P-001	Solid Rocket Booster - Assembly and Refurbishment Facility / L6-0247	Top Coat Application Cell	Currier	39-ED-29	Filter	1986	N/A
SK-P-004A	Solid Rocket Booster - Assembly and Refurbishment Facility / L6-0247	Thermal Protection System (TPS) Spray Cell No. 1 (North Room 132)	Currier	39-ED-29	Filter	1986	N/A
SK-P-004A	Solid Rocket Booster - Assembly and Refurbishment Facility / L6-0247	Thermal Protection System (TPS) Spray Cell No. 2 (South Room 145)	Currier	39-ED-29	Filter	1986	N/A
SK-P-004B	Solid Rocket Booster - Assembly and Refurbishment Facility / L6-0247	Thermal Protection System (TPS) Cure Cell No. 1 (North Room 141)	Currier	39-ED-29	Filter	1986	N/A
SK-P-004B	Solid Rocket Booster - Assembly and Refurbishment Facility / L6-0247	Thermal Protection System (TPS) Cure Cell No. 2 (South Room 146)	Currier	39-ED-29	Filter	1986	N/A
SK-P-006 A	Hangar AF Area Solid Rocket Booster (SRB) Paint Building / 66310	East Spray Cell Paint Booth	Binks Manufacturing Co.	FAC-0101-1	Filter	1985	N/A
SK-P-006 B	Hangar AF Area Solid Rocket Booster (SRB) Paint Building / 66310	West Spray Cell Paint Booth	Binks Manufacturing Co.	FAC-0101-2	Filter	1985	N/A
TM-H-002	Component Refurbishment and Chemical Analysis Facility / K6-1696	IPA Vent Hood	Wiltech - Field Fabricated	N/A	N/A	1998	N/A
TM-P-002	Hangar AF / 66250	Small Parts Paint Booth	USBI - Field Fabricated	N/A	Filter	1990	N/A
TM-P-003	Launch Equipment Shop Paint Shop / K6-1397	Paint Booth	Spray Booth Systems, Inc.	N/A	Filter	1984	N/A
TM-P-001	Hangar N / 01728	Paint Booth	Col-Met Spray Booths, Inc	EIE 1208	Filter	2008	December 2012
TM-P-004	Hangar N / 01728	Film Lube Booth	DeVilbiss	N/A	Filter	1994	December 2012
ARB-1844B	Abrasive Recovery Building/K6-1844B	Abrasive Recovery and Paint Booth	N/A	N/A	Dust Bags	1996	Inactive Status as of November 4, 2015

¹ Engineering Design Firm

² The installation date may be an equipment installation date, facility construction date, air construction permit issue date, equipment manufactured date, or an estimated startup date provided by facility personnel.

N/A = Not Applicable

Red entries denote recently (within the last 6 months) removed emission units.

Permit Attachment 3-A
EU 086 - Emergency Stationary Compression Ignition (CI) RICE

Table 1: Engines that individually have the potential to emit at least 5 tons per year of any criteria pollutant based on 500 operating hours per year (First Category)

Identification/Asset Number (Historical Numbers in Parentheses)	Facility #	Description	Engine Description	Displacement (liters/cylinder)	Generator Manufacturer	Generator Model Number	Generator Serial Number	Engine Manufacturer	Engine Model Number	Engine Serial Number	Engine Manufacture Date	Start-up Date ¹	Standby Brake Horsepower (bhp)*	Nominal Rated Kilowatt (kW)	Subject to New Source Performance Standard (NSPS)/40 CFR Part 60, Subpart IIII (Y/N)	Rationale for NSPS Applicability Determination	Subject to the RICE NESHAP/40 CFR Part 63 Subpart ZZZZ (Y/N)	Date Removed
SIG01003	M7-0360	Space Station Processing Facility/Generator	Electric Power Generator	2.45	Kohler	2000R0ZD	391738	Detroit Diesel	92037K16	20E200360	October 7, 1997	1999	2935	2,000	N	Manufactured BEFORE April 1, 2006	N	N/A
SIG01004	M7-0360	Space Station Processing Facility/Generator	Electric Power Generator	2.5	Kohler	1200R0ZD	610139	Detroit Diesel	91237416	12E-11074	January 30, 1999	May 10, 1999	1750	1,200	N	Manufactured BEFORE April 1, 2006	N	N/A
CLG01001	M7-1354	Payload Hazardous Servicing Facility/Generator	Electric Power Generator	2.7	Caterpillar	SR5	G1E02342	Caterpillar	C32	PRH00520	July 6, 2010	November 22, 2010	1474	1,000	Y	Manufactured AFTER April 1, 2006	N	N/A
HCG02001	E3-1133	Mid-Course Radar Facility/Generator	Electric Power Generator	2.8	Generac	573RS14035	WA3575636-0700	Mitsubishi	S12A2-PTA	22241	May 1, 2000	2006	1140	800	N	Manufactured BEFORE April 1, 2006	N	N/A
3367659 (G1E00774)	60674	Hangar AE/Generator	Electric Power Generator	3.7	Caterpillar	SR5	G1E00774	Caterpillar	C32	PRH00494	June 28, 2010	June 16, 2011	1474	1,000	Y	Manufactured AFTER April 1, 2006	N	N/A
HE906272 (FIREX-003A)	J7-1388	Industrial Water Pumping Station/Fire Engine #1	Fire Pump Engine	4.3	N/A	N/A	N/A	Caterpillar	3508-DITA	95Y01040	September 24, 1997	November 4, 1997	1065	795	N	Manufactured BEFORE July 1, 2006	N	N/A
HE906274 (FIREX-003B)	J7-1388	Industrial Water Pumping Station/Fire Engine #2	Fire Pump Engine	4.3	N/A	N/A	N/A	Caterpillar	3508-DITA	95Y01036	September 19, 1997	November 4, 1997	1065	795	N	Manufactured BEFORE July 1, 2006	N	N/A
HE906276 (FIREX-003C)	J7-1388	Industrial Water Pumping Station/Fire Engine #3	Fire Pump Engine	4.3	N/A	N/A	N/A	Caterpillar	3508-DITA	95Y01039	September 23, 1997	November 4, 1997	1065	795	N	Manufactured BEFORE July 1, 2006	N	N/A
HE906278 (FIREX-003D)	J7-1388	Industrial Water Pumping Station/Fire Engine #4	Fire Pump Engine	4.3	N/A	N/A	N/A	Caterpillar	3508-DITA	95Y01038	September 23, 1997	November 4, 1997	1065	795	N	Manufactured BEFORE July 1, 2006	N	N/A
HE906292 (FIREX-002)	K6-0895	Orbiter Processing Facility Pump House/Fire Engine #1	Fire Pump Engine	4.3	N/A	N/A	N/A	Caterpillar	3508	68Z01274	February 24, 2005	30-Sep-2005	850	770	N	Manufactured BEFORE July 1, 2006	N	N/A
HE906280 (FIREX-001A)	M7-1362	FireX Pump Station/Fire Engine #1	Fire Pump Engine	5.1	N/A	N/A	N/A	Fairbanks Morse	38F5-1/4	968638	<1950	1983	825	600	N	Manufactured BEFORE July 1, 2006	N	9/14/2014
HE906282 (FIREX-001B)	M7-1362	FireX Pump Station/Fire Engine #2	Fire Pump Engine	5.1	N/A	N/A	N/A	Fairbanks Morse	38F5-1/4	968631	<1950	1983	825	600	N	Manufactured BEFORE July 1, 2006	N	9/14/2014
HE906284 (FIREX-001)	M7-1362	FireX Pump Station/Fire Engine #3	Fire Pump Engine	4.3	N/A	N/A	N/A	Caterpillar	3512	65Z01177	1/24/2005	30-Sep-2005	1,020	760	N	Manufactured BEFORE July 1, 2006	N	N/A
To Be Determined	M6-0547	KSC Data Center/Generator	Electric Power Generator	3.14	Cummins Onan	DQGAE-A049Y705	G140716337	Cummins Onan	QSK50-G5	25399409	April 28, 2014	1-Feb-16	1676	1,250	Y	Manufactured AFTER April 1, 2006	N	N/A

Table 2: Other engines operating at the site (Second Category)

Identification/Asset Number (Historical Numbers in Parentheses)	Facility #	Description	Engine Description	Displacement (liters/cylinder)	Generator Manufacturer	Generator Model Number	Generator Serial Number	Engine Manufacturer	Engine Model Number	Engine Serial Number	Engine Manufacture Date	Start-up Date ¹	Standby Brake Horsepower (bhp)*	Nominal Rated Kilowatt (kW)	Subject to New Source Performance Standard (NSPS)/40 CFR Part 60, Subpart IIII (Y/N)	Rationale for NSPS Applicability Determination	Subject to the RICE NESHAP/40 CFR Part 63 Subpart ZZZZ (Y/N)	Date Removed
SIG01001	M7-0360	Space Station Processing Facility/Generator	Electric Power Generator	1.3	Generac	95A032525	CD151-K36104D18CBYNN	Caterpillar	3208	5YF02502	July 10, 1995	1995	269	150	N	Manufactured BEFORE April 1, 2006	N	N/A
XZG01002 (HE901643)	M6-0342D	Central Instrumentation Facility Generator Enclosure/Generator	Electric Power Generator	2.3	Cummins Onan	350DQBB	H970646350	Cummins Onan	N14-G2	11856018	August 1, 1997	1997	480	350	N	Manufactured BEFORE April 1, 2006	N	N/A
XZG01001	M6-0342D	Central Instrumentation Facility Generator Enclosure/Generator	Electric Power Generator	1.5	Caterpillar	LC5	G5A04274	Caterpillar	C9	S9L03258	August 9, 2010	October 28, 2010	398	250	Y	Manufactured AFTER April 1, 2006	N	N/A
FPG02001	J6-2370	Fire Station 2/Generator	Electric Power Generator	1.5	Caterpillar	LC5	G5A03435	Caterpillar	C9	S9L02581	April 30, 2009	August 5, 2010	398	250	Y	Manufactured AFTER April 1, 2006	N	N/A
DIG01010	M6-0495D	Occupational Health Facility Emergency Generator Building/Generator	Electric Power Generator	1.8	Caterpillar	SR4	6DG00360	Caterpillar	3306 D1	85Z11198	November 10, 1993	1993	314	205	N	Manufactured BEFORE April 1, 2006	N	N/A
IRG02163	M3-0147	Indian River Bridge Emergency Generator Building/Generator	Electric Power Generator	1.7	Cummins Onan	200DFAA	I940555086	Cummins Onan	LTA-10G1	34742185	August 1, 1994	June 18, 1996	380	200	N	Manufactured BEFORE April 1, 2006	N	N/A
OCG02003	M7-0355	Operations & Checkout Building/Generator	Electric Power Generator	1.4	Cummins Onan	DGFA-5739028	H050825216	Cummins Onan	6CTA8.3-G2	46528844	September 1, 2005	2005	277	150	N	Manufactured BEFORE April 1, 2006	N	N/A
OCG02004	M7-0355	Operations & Checkout Building/Generator	Electric Power Generator	1.4	Cummins Onan	DGFA-5739026	H050825215	Cummins Onan	6CTA8.3-G2	46526152	August 25, 2005	2005	277	150	N	Manufactured BEFORE April 1, 2006	N	N/A
F-Gen-04	J6-1874	Visitors Center, Apollo/Saturn V, Support Building/Generator	Electric Power Generator	1.1	Generac	96A00345S	CD125-K3664D18CBYNC	Generac	73398	EH700-228354	February 16, 1996	1997	168	125	N	Manufactured BEFORE April 1, 2006	N	N/A
F-Gen-06	M6-0458	Visitor Center, Commissary Building/Generator	Electric Power Generator	0.6	Generac	6644820100	2088774	John Deere	5030TF270C	PE5030T085836	May 20, 2006	2006	80	50	Y	Manufactured AFTER April 1, 2006	N	N/A
DNC Admin M6-0410	M6-0410	Visitor Center, Administration Building	Electric Power Generator	0.9	Generac	SD0040KG163.4 D18HBSY	9009002	Generac	D3400T-Gen1	TP9W00635	November 26, 2012	July 15, 2014	85	63	Y	Manufactured AFTER April 1, 2006	N	N/A

ENG01001	J5-1197	Shuttle Landing Facility Air Traffic Control Tower/Generator	Electric Power Generator	1.1	Detroit Diesel	150DJEJB	750142	John Deere	6068HF150D	PE6068H221877	November 19, 2002	2002	251	150	N	Manufactured BEFORE April 1, 2006	N	N/A
HE902359	J6-0490	500 FT Weather Tower Equipment Building/Generator	Electric Power Generator	1.4	Cummins Onan	DGBA-4959346	E010241700	Cummins Onan	6CT8.3-G2	46106996	May 8, 2001	2001	168	125	N	Manufactured BEFORE April 1, 2006	N	N/A
MRG02165	H2-1245	Jay Jay Bridge Generator Building/Generator	Electric Power Generator	1	Cummins Onan	100DGDB	C920456442	Cummins Onan	6BT5.9-G2	44730443	March 16, 1992	1992	166	100	N	Manufactured BEFORE April 1, 2006	N	N/A
HE901707	M7-0531	Banana River Repeater Station/Generator	Electric Power Generator	1.1	Marathon	361PSL1647	LM-404662-0105	John Deere	4045TF275D	PE4045T411168	October 24, 2004	2005	113	64	N	Manufactured BEFORE April 1, 2006	N	N/A
CIG01001	M6-0493C	Emergency Generator Building/Generator	Electric Power Generator	1	Cummins Onan	60DGCB	J940557735	Cummins Onan	4BT3.9-G2	45075574	September 28, 1994	1994	102	60	N	Manufactured BEFORE April 1, 2006	N	N/A
HCG01001	E4-2414A	Haulover Bridge Emergency Generator Building/Generator	Electric Power Generator	1	Cummins Onan	60DGCB	G960611635	Cummins Onan	4BT3.9-G2	45383407	July 22, 1996	1996	102	60	N	Manufactured BEFORE April 1, 2006	N	N/A
HE901652	M6-0336	Electromagnetic Lab/Generator	Electric Power Generator	1	Cummins Onan	60DGCB	I980794603	Cummins Onan	4BT3.9-G4	45727788	July 13, 1998	1998	93	60	N	Manufactured BEFORE April 1, 2006	N	N/A
HE901735	K7-1557	Instrumentation Facility Building/Generator	Electric Power Generator	0.6	Marathon	282NLS1505	667777-0106	Isuzu	4LE1-PV-05	196475	November 25, 2005	2006	35	18	N	Manufactured BEFORE April 1, 2006	N	N/A
HE902335	M6-0791	Communications Maintenance and Storage/Generator	Electric Power Generator	0.3	Cummins Onan	7.5DKDFJ	L943286659	Cummins Onan	7.5DKDFJ	L943286659	June 17, 1995	1995	11	8	N	Manufactured BEFORE April 1, 2006	N	N/A
2864922	60674	Hangar AE/Generator	Electric Power Generator	2.5	Caterpillar	LC6	G6B16995	Caterpillar	C15	FSE03276	June 9, 2010	June 16, 2011	713	400	Y	Manufactured AFTER April 1, 2006	N	N/A
FSG01001	M6-0695	Fire Station 1/Generator	Electric Power Generator	1.1	Baldor	1DLC80-3JU	P1308120001	John Deere	4045HF285	PE4045L240434	June 6, 2013	September 3, 2013	158	107	Y	Manufactured AFTER April 1 ,2006	N	N/A
HE906294	K6-0895	Orbiter Processing Facility Pump House/Fire Engine #2	Fire Pump Engine	5.2	N/A	N/A	N/A	Fairbanks Morse	38F5-1/4	970003	<1950	1983	750	477	N	Manufactured BEFORE July 1, 2006	N	N/A
HE906296	K6-0895	Orbiter Processing Facility Pump House/Fire Engine #3	Fire Pump Engine	5.2	N/A	N/A	N/A	Fairbanks Morse	38F5-1/4	969998	<1950	1983	750	477	N	Manufactured BEFORE July 1, 2006	N	N/A

HE906286	K6-0947	Utility Annex/Fire Engine #2	Fire Pump Engine	2.3	N/A	N/A	N/A	Caterpillar	3412	38S23589	March 9, 2005	September 30, 2005	511	453	N	Manufactured BEFORE July 1, 2006	N	September 15, 2014
HE906288	K6-0947	Utility Annex/Fire Engine #3	Fire Pump Engine	5.1	N/A	N/A	N/A	Fairbanks Morse	38F5-1/4	970354	<1950	1983	400	298	N	Manufactured BEFORE July 1, 2006	N	September 15, 2014
HE906290	K6-0947	Utility Annex/Fire Engine #4	Fire Pump Engine	5.1	N/A	N/A	N/A	Fairbanks Morse	38F5-1/4	38F567022DG5	<1950	1983	400	298	N	Manufactured BEFORE July 1, 2006	N	September 15, 2014
HE906268	J6-2466	Reusable Launch Vehicle Hangar/Fire Engine #3	Fire Pump Engine	1	N/A	N/A	N/A	Cummins	6BTA5.9G3	46770605	June 24, 2007	November 18, 2008	188	140	Y	Manufactured AFTER July 1, 2006	N	N/A
HE906270	J6-2466	Reusable Launch Vehicle Hangar/Fire Engine #4	Fire Pump Engine	1	N/A	N/A	N/A	Cummins	6BTA5.9G3	46770775	June 23, 2007	November 18, 2008	188	140	Y	Manufactured AFTER July 1, 2006	N	N/A
HE906258	N6-0407	Grove Pump #3	Flood Control Pump Engine	1	N/A	N/A	N/A	Cummins	4BT 76	60117234	< September 9, 2005 (Engine plate says engine was reconstructed September 9, 2005)	< September 9, 2005 (Engine plate says engine was reconstructed September 9, 2005)	76	57	Y	Reconstructed AFTER July 11, 2005	N	N/A
HE906260	N6-0107	Grove Pump #5	Flood Control Pump Engine	1.1	N/A	N/A	N/A	John Deere	4045HF285	PE4045L019648	August 8, 2007	2009	139	104	Y	Manufactured AFTER July 1, 2006	N	N/A
HE906262	M6-1757	Grove Pump #6	Flood Control Pump Engine	0.9	N/A	N/A	N/A	Detroit Diesel	3-53	3A24653	<1960	<1960	101	75	N	Manufactured BEFORE July 1, 2006	N	N/A
HE906234	M5-1586	Grove Pump #8	Flood Control Pump Engine	1.5	N/A	N/A	N/A	Detroit Diesel	4D-55193	5044-7101	<1960	<1960	110	82	N	Manufactured BEFORE July 1, 2006	N	N/A
HE906236	M5-1586A	Grove Pump #9	Flood Control Pump Engine	1	N/A	N/A	N/A	Cummins	6BTA 200	60251798	< September 9, 2008 (Engine plate says engine was reconstructed September 9, 2008)	< September 9, 2008 (Engine plate says engine was reconstructed September 9, 2008)	200	149	Y	Reconstructed AFTER July 11, 2005	N	N/A
HE906256	M6-0486	Grove Pump #10	Flood Control Pump Engine	1.47	N/A	N/A	N/A	Detroit Diesel	RC	4A95381	<1960	<1960	110	82	N	Manufactured BEFORE July 1, 2006	N	5/13/11-OUT OF SERVICE
HE906264	M6-0166	Grove Pump #11	Flood Control Pump Engine	0.9	N/A	N/A	N/A	Detroit Diesel	3-53	3A70471	<1960	<1960	101	75	N	Manufactured BEFORE July 1, 2006	N	N/A
HE906266	L5-0033	Grove Pump #13	Flood Control Pump Engine	1.8	N/A	N/A	N/A	Caterpillar	3208	03Z17053	June 22, 1999	2000	176	131	N	Manufactured BEFORE July 1, 2006	N	N/A

Table 3: Engines projected to be installed at the facility within the next 12 months

Identification/Asset Number (Historical Numbers in Parentheses)	Facility #	Description	Engine Description	Displacement (liters/cylinder)	Generator Manufacturer	Generator Model Number	Generator Serial Number	Engine Manufacturer	Engine Model Number	Engine Serial Number	Engine Manufacture Date	Start-up Date ¹	Standby Brake Horsepower (bhp)*	Nominal Rated Kilowatt (kW)	Subject to New Source Performance Standard (NSPS)/40 CFR Part 60, Subpart IIII (Y/N)	Rationale for NSPS Applicability Determination	Subject to the RICE NESHAP/40 CFR Part 63 Subpart ZZZZ (Y/N)	Date Removed
To Be Determined	M7-1362	FireX Pump Station/Fire Engine # TBD	Fire Pump Engine	To Be Determined	N/A	N/A	N/A	Cummins	QSK23-NR2	326955	April 8, 2014	To Be Determined	1220	910	Y	Manufactured AFTER July 1, 2006	N	N/A
To Be Determined	M7-1104	Multi-Payload Processing Facility/Generator	Electric Power Generator	2.3	Caterpillar	SR4B	AFR04381	Caterpillar	C27 ATAAC	MJE03713	To Be Determined	To Be Determined	1005	750	Y	Manufactured AFTER April 1, 2006	N	N/A
To Be Determined	K6-0947	Utility Annex/Fire Engine #1	Fire Pump Engine	2.25	N/A	N/A	N/A	John Deere	6135HFC48	RG6135L029411	July 1, 2014	To Be Determined	526	392	Y	Manufactured AFTER July 1, 2006	N	N/A
To Be Determined	K6-0947	Utility Annex/Fire Engine #2	Fire Pump Engine	2.25	N/A	N/A	N/A	John Deere	6135HFC48	RG6135L029419	July 1, 2014	To Be Determined	526	392	Y	Manufactured AFTER July 1, 2006	N	N/A
To Be Determined	K6-0947	Utility Annex/Fire Engine #3	Fire Pump Engine	2.25	N/A	N/A	N/A	John Deere	6135HFC48	RG6135L029413	July 1, 2014	To Be Determined	526	392	Y	Manufactured AFTER July 1, 2006	N	N/A
To Be Determined	K6-0947	Utility Annex/Fire Engine #4	Fire Pump Engine	2.25	N/A	N/A	N/A	John Deere	6135HFC48	RG6135L029414	July 1, 2014	To Be Determined	526	392	Y	Manufactured AFTER July 1, 2006	N	N/A
To Be Determined	K7-1557	MARGO	Electric Power Generator	2.22	Perkins	To Be Determined	To Be Determined	Perkins	To Be Determined	To Be Determined	To Be Determined	To Be Determined	24	To Be Determined	Y	Manufactured AFTER July 1, 2006	N	N/A

¹ The start-up date may be an equipment installation date, facility construction date, construction contractor turn-over date, engine load test date, or an estimated start-up date provided by facility personnel.

* Standby bhp @ 1800 RPM for generator engines, @ 1200 RPM for pump engines (number includes parasitic accessories)

N/A = Not Applicable

Red entries denote recently (within the last 6 months) removed emission units.

Permit Attachment 4-A
EU 087 - Emergency Stationary Spark Ignition (SI) RICE

Table 1: Engines that individually have the potential to emit at least 5 tons per year of any criteria pollutant based on 500 operating hours per year (First Category)

Identification/Asset Number (Historical Numbers in Parentheses)	Facility #	Description	Engine Description	Displacement (liters/cylinder)	Generator Manufacturer	Generator Model Number	Generator Serial Number	Engine Manufacturer	Engine Model Number	Engine Serial Number	Engine Manufacture Date	Start-up Date	Standby Brake Horsepower (bhp)*	Nominal Rated Kilowatt (kW)	Subject to New Source Performance Standard (NSPS)/40 CFR Part 60, Subpart JJJJ (Y/N)	Rationale for NSPS Applicability Determination	Subject to the RICE NESHAP/40 CFR Part 63 Subpart ZZZZ (Y/N)	Date Removed
The facility currently has no engines in this category																		

Table 2: Other engines operating at the site (Second Category)

Identification/Asset Number (Historical Numbers in Parentheses)	Facility #	Description	Engine Description	Displacement (liters/cylinder)	Generator Manufacturer	Generator Model Number	Generator Serial Number	Engine Manufacturer	Engine Model Number	Engine Serial Number	Engine Manufacture Date	Start-up Date	Standby Brake Horsepower (bhp)*	Nominal Rated Kilowatt (kW)	Subject to New Source Performance Standard (NSPS)/40 CFR Part 60, Subpart JJJJ (Y/N)	Rationale for NSPS Applicability Determination	Subject to the RICE NESHAP/40 CFR Part 63 Subpart ZZZZ (Y/N)	Date Removed
The facility currently has no engines in this category																		

Table 3: Engines projected to be installed at the facility within the next 12 months

Identification/Asset Number (Historical Numbers in Parentheses)	Facility #	Description	Engine Description	Displacement (liters/cylinder)	Generator Manufacturer	Generator Model Number	Generator Serial Number	Engine Manufacturer	Engine Model Number	Engine Serial Number	Engine Manufacture Date	Start-up Date	Standby Brake Horsepower (bhp)*	Nominal Rated Kilowatt (kW)	Subject to New Source Performance Standard (NSPS)/40 CFR Part 60, Subpart JJJJ (Y/N)	Rationale for NSPS Applicability Determination	Subject to the RICE NESHAP/40 CFR Part 63 Subpart ZZZZ (Y/N)	Date Removed
No engines are currently projected to be installed within the next 12 months																		

* Standby bhp @ 1800 RPM for generator engines (number includes parasitic accessories)

Permit Attachment 5-A
EU 088 - LC-39 Non-Emergency Stationary CI RICE¹

Identification/Asset Number (Historical Numbers in Parentheses)	Facility #	Description	Engine Description	Displacement (liters/cylinder)	Generator Manufacturer	Generator Model Number	Generator Serial Number	Engine Manufacturer	Engine Model Number	Engine Serial Number	Engine Manufacture Date	Start-up Date	Standby Brake Horse Power (bhp)*	Nominal Rated Kilowatt (kW)	Subject to New Source Performance Standard (NSPS)/40 CFR Part 60, Subpart IIII (Y/N)	Rationale for NSPS Applicability Determination	Subject to the RICE NESHAP/40 CFR Part 63 Subpart ZZZZ (Y/N)	Applicable Construction Permit Numbers	Date Removed
EVG01001 (IM-G-001-1)	K6-1091	Launch Complex 39 Emergency Power Station/Generator #1	Electric Power Generator	4.3	Caterpillar	SR-4HV	8LS00880	Caterpillar	3516	7RN00683	October 16, 1998	April 6, 1999	2,934	2,000	N	Manufactured BEFORE April 1, 2006	Y	0090051-010-AC, 0090051-025-AC	N/A
EVG01002 (IM-G-001-2)	K6-1091	Launch Complex 39 Emergency Power Station/Generator #2	Electric Power Generator	4.3	Caterpillar	SR-4HV	8LS00881	Caterpillar	3516	7RN00686	October 20, 1998	April 6, 1999	2,934	2,000	N	Manufactured BEFORE April 1, 2006	Y	0090051-010-AC, 0090051-025-AC	N/A
EVG01003 (IM-G-001-3)	K6-1091	Launch Complex 39 Emergency Power Station/Generator #3	Electric Power Generator	4.3	Caterpillar	SR-4HV	8LS00882	Caterpillar	3516	7RN00687	October 21, 1998	April 5, 1999	2,934	2,000	N	Manufactured BEFORE April 1, 2006	Y	0090051-010-AC, 0090051-025-AC	N/A
EVG01004 (IM-G-001-4)	K6-1091	Launch Complex 39 Emergency Power Station/Generator #4	Electric Power Generator	4.3	Caterpillar	SR-4HV	8LS00883	Caterpillar	3516	7RN00688	October 22, 1998	April 5, 1999	2,934	2,000	N	Manufactured BEFORE April 1, 2006	Y	0090051-010-AC, 0090051-025-AC	N/A
EVG01005 (IM-G-001-5)	K6-1091	Launch Complex 39 Emergency Power Station/Generator #5	Electric Power Generator	4.3	Caterpillar	SR-4HV	8LS00884	Caterpillar	3516	7RN00689	October 23, 1998	April 2, 1999	2,934	2,000	N	Manufactured BEFORE April 1, 2006	Y	0090051-010-AC, 0090051-025-AC	N/A

¹ Construction permit number 0090051-025-AC allowed for the installation of catalytic oxidation units on these engines and reclassified the engines from emergency to non-emergency. These changes will appear in the Title V Air Operation Permit when a permit revision is issued in March 2015.

* Standby bhp @ 1800 RPM for generator engines (number includes parasitic accessories)

Permit Attachment 6-A
EU 089 - Hypergol Servicing Operations and Activities

Identification/Asset Number (Historical Numbers in Parentheses)	Location/Building	Description	Manufacturer	Model Number	Installation Date¹	Date Removed
CM-07	Payload Hazardous Servicing Facility (PHSF) / M7-1354	Fuel Vapor Scrubber	Taylor Forged Engineering Systems	S70-1094-F1	1986	N/A
CM-08	Payload Hazardous Servicing Facility (PHSF) / M7-1354	Oxidizer Vapor Scrubber	Taylor Forged Engineering Systems	S70-1094-E1	1986	N/A
IM-53	Fuel Storage Area #1 (FSA-1) / 73019	Hypergol Fueling Operations, including mobile scrubbers	KSC Constructed	N/A	1983	N/A
TM-55	Orbiter Processing Facility (OPF) 1 & 2 / K6-0894	Oxidizer Purging System	KSC Constructed	S70-1095-09	1977	February 2014
TM-56	Orbiter Processing Facility (OPF) 1 & 2 / K6-0894	Fuel Purging System	KSC Constructed	S70-1094-09	1977	February 2014
TM-88	Hypergol Maintenance Facility (HMF) South / M7-1212	East/West Cell Fuel ASP	KSC Constructed	S70-1094-02	1964	December 2012
TM-89	Hypergol Maintenance Facility (HMF) South / M7-1212	East/West Cell Oxidizer ASP	KSC Constructed	S70-1095-02	1964	December 2012
TM-94	Hypergol Maintenance Facility (HMF) North / M7-0961	East/West Cell Fuel ASP	KSC Constructed	S70-1095-02	1964	May 2014
TM-95	Hypergol Maintenance Facility (HMF) North / M7-0961	East/West Cell Oxidizer ASP	KSC Constructed	S70-1094-02	1964	May 2014
TM-96	Hypergol Maintenance Facility (HMF) North / M7-0961	Fuel Fume Hood	Kewaunee	SH-1505-MS-FL	1964	May 2014
TM-97	Hypergol Maintenance Facility (HMF) North / M7-0961	Oxidizer Fume Hood	Kewaunee	SH-1505-MS-OX	1964	May 2014

Notes:

¹ The installation date may be an equipment installation date, facility construction date, air construction permit issue date, equipment manufactured date, or an estimated startup date provided by facility personnel.

Construction permit number 0090051-024-AC allows for the construction of one new hypergolic fuel scrubber and one new hypergolic oxidizer scrubber at the Multi-Payload Processing Facility. These units are under construction and will eventually be added to this attachment.

Permit Attachment 7-A
EU 093 - Non-Emergency Existing Stationary CI RICE with Installed Controls¹

Identification/Asset Number	Facility #	Description	Engine Description	Displacement (liters/cylinder)	Generator Manufacturer	Generator Model Number	Generator Serial Number	Engine Manufacturer	Engine Model Number	Engine Serial Number	Engine Manufacture Date	Start-up Date	Standby Brake Horsepower (bhp)*	Nominal Rated Kilowatt (kW)	Subject to New Source Performance Standard (NSPS)/40 CFR Part 60 Subpart III (Y/N)	Rationale for NSPS Applicability Determination	Subject to the RICE NESHAP/40 CFR Part 63 Subpart ZZZZ (Y/N)	Applicable Construction Permit Numbers	Date Removed
PGE01001	K7-1203	Press Site Emergency Generator Building/Generator #1	Electric Power Generator	2.6	Caterpillar	LC6	G6B00322	Caterpillar	3456	7WG02514	October 20, 2004	2005	764	500	N	Manufactured BEFORE April 1, 2006	Y	0090051-015-AC, 0090051-025-AC	N/A
PGE01002	K7-1203	Press Site Emergency Generator Building/Generator #2	Electric Power Generator	2.6	Caterpillar	LC6	G6B00465	Caterpillar	3456	7WG02524	October 22, 2004	2005	764	500	N	Manufactured BEFORE April 1, 2006	Y	0090051-015-AC, 0090051-025-AC	N/A
HE902347	M6-0139	Communications Distribution and Switching Center Generator Building/Generator #1 East	Electric Power Generator	2.3	Cummins Onan	350DQBB	H970645638	Cummins Onan	N14-G2	11855364	July 1, 1997	1997	535	350	N	Manufactured BEFORE April 1, 2006	Y	0090051-025-AC	N/A
HE902351	M6-0139	Communications Distribution and Switching Center Generator Building/Generator #2 Middle	Electric Power Generator	2.3	Cummins Onan	350DQBB	H970646347	Cummins Onan	N14-G2	11856022	August 1, 1997	1997	535	350	N	Manufactured BEFORE April 1, 2006	Y	0090051-025-AC	N/A

¹ EU 093 was created under construction permit number 0090051-025-AC which allowed for the installation of catalytic oxidation units on these engines and reclassified the engines from emergency to non-emergency. The engines in this EU were previously a part of EU 086. EU 093 does not currently appear in the Title V Air Operation Permit. EU 093 will appear in the Title V Air Operation Permit when a permit revision is issued in March 2015.

* Standby bhp @ 1800 RPM for generator engines (number includes parasitic accessories)

N/A = Not Applicable

Permit Attachment 8-A *UNDER CONSTRUCTION*
EU 094 - Non-Emergency Stationary CI RICE Subject to NSPS

Table 1: Engines that individually have the potential to emit at least 5 tons per year of any criteria pollutant based on 500 operating hours per year (First Category)

Identification/Asset Number (Historical Numbers in Parentheses)	Facility #	Description	Engine Description	Displacement (liters/cylinder)	Generator Manufacturer	Generator Model Number	Generator Serial Number	Engine Manufacturer	Engine Model Number	Engine Serial Number	Engine Manufacture Date	Start-up Date	Standby Brake Horsepower (bhp)*	Nominal Rated Kilowatt (kW)	Subject to New Source Performance Standard (NSPS)/40 CFR Part 60, Subpart IIII (Y/N)	Rationale for NSPS Applicability Determination	Subject to the RICE NESHAP/40 CFR Part 63 Subpart ZZZZ (Y/N)**	Applicable Construction Permit Numbers	Date Removed
No engines in this category																			

Table 2: Other engines operating at the site (Second Category)

Identification/Asset Number (Historical Numbers in Parentheses)	Facility #	Description	Engine Description	Displacement (liters/cylinder)	Generator Manufacturer	Generator Model Number	Generator Serial Number	Engine Manufacturer	Engine Model Number	Engine Serial Number	Engine Manufacture Date	Start-up Date	Standby Brake Horsepower (bhp)*	Nominal Rated Kilowatt (kW)	Subject to New Source Performance Standard (NSPS)/40 CFR Part 60, Subpart IIII (Y/N)	Rationale for NSPS Applicability Determination	Subject to the RICE NESHAP/40 CFR Part 63 Subpart ZZZZ (Y/N)**	Applicable Construction Permit Numbers	Date Removed
To Be Determined	M6-0547	Consolidated Data Center	Electric Power Generator	3.14	Cummins Onan	DQGAE-A049Y764	I140750178	Cummins Onan	QSK50-G8	25401470	June 15, 2014	1-Feb-16	1676	1,250	Y	Manufactured AFTER April 1,2006	Y	0090051-026-AC	N/A

Table 3: Engines projected to be installed at the facility within the next 12 months

Identification/Asset Number (Historical Numbers in Parentheses)	Facility #	Description	Engine Description	Displacement (liters/cylinder)	Generator Manufacturer	Generator Model Number	Generator Serial Number	Engine Manufacturer	Engine Model Number	Engine Serial Number	Engine Manufacture Date	Start-up Date	Standby Brake Horsepower (bhp)*	Nominal Rated Kilowatt (kW)	Subject to New Source Performance Standard (NSPS)/40 CFR Part 60, Subpart IIII (Y/N)	Rationale for NSPS Applicability Determination	Subject to the RICE NESHAP/40 CFR Part 63 Subpart ZZZZ (Y/N)**	Applicable Construction Permit Numbers	Date Removed
To Be Determined	To Be Determined	Central Campus HQ Building	Electric Power Generator	2.25	Caterpillar	To Be Determined	To Be Determined	Caterpillar	C27 ATAAC	To Be Determined	To Be Determined	To Be Determined	1072	800	Y	Manufactured AFTER April 1,2006	Y	N/A	N/A

EU 094 was created under construction permit number 0090051-026-AC.

* Standby bhp @ 1800 RPM for generator engines (number includes parasitic accessories)

** These engines are technically subject to the RICE NESHAP. However, the only RICE NESHAP requirement is to comply with NSPS requirements.

N/A = Not Applicable