

CLIN 3 Activity 2 Attachment 4

NETL ALBANY TOXIC GAS ALARM SYSTEMS IN-SERVICE FACILITY SENSORS AND R&D SAFETY SENSORS				
ID Number	Part Number:	Location	Manufacturing Date:	NETL Expiration Date:
H17-400966749-10-001	A-ULTX-SENS-14	HGS.B24.R105-A.O2	August 2017	November 16, 2017
G15-400924222-10-001	A-ULTX-SENS-14	HGS.B24.R105-B.O2	July 2017	November 16, 2017
H17-400966749-10-007	A-ULTX-SENS-14	HGS.B26.GS.O2	August 2017	August 1, 2019
J13-4480986-10-004	A-ULTX-SENS-37	HGS.B26.GS.CO2	October 2013	August 1, 2019
L16-400741805-20-003	A-ULTX-SENS-17	HGS.B26.GS.H2S	December 2016	September 29, 2023
A16-400448840-30-001	A-ULTX-SENS-71	HGS.B26.GS.SO2	January 2016	December 1, 2018
H17-400966749-20-002	A-ULTX-SENS-12	HGS.B26.GS.CO	August 2017	December 31, 2017
A16-400448840-10-003	A-ULTX-SENS-31	HGS.B26.GS.CH4 (LEL)	January 2016	December 31, 2018
H17-400966749-48-003	A-ULTX-SENS-48	HGS.B26.GS.NH3	August 2017	August 1, 2019
A16-400448840-71-002	A-ULTX-SENS-71	HGS.B26.GS.SO2-N	January 2016	December 31, 2017
H17-400966749-10-002	A-ULTX-SENS-14	HGS.B26.R104.O2	August 2017	August 1, 2019
J13-4480986-10-005	A-ULTX-SENS-37	HGS.B26.R104.CO2	October 2013	September 29, 2023
A16-400448840-10-001	A-ULTX-SENS-31	HGS.B26.R104.CH4 (LEL)	January 2016	December 31, 2018
H17-400966749-50-001	A-ULTX-SENS-71	HGS.B26.R104.SO2	August 2017	August 1, 2019
H17-400966749-17-001	A-ULTX-SENS-17	HGS.B26.R104.H2S	August 2017	August 1, 2019
H17-400966749-48-001	A-ULTX-SENS-48	HGS.B26.R104.NH3	August 2017	August 1, 2019
H17-400966749-10-003	A-ULTX-SENS-14	HGS.B26.R105.O2	August 2017	August 1, 2019
J13-4480986-10-001	A-ULTX-SENS-37	HGS.B26.R105.CO2	October 2013	September 29, 2023
A16-400448840-10-002	A-ULTX-SENS-31	HGS.B26.R105.CH4 (LEL)	January 2016	December 31, 2018
H17-400966749-50-002	A-ULTX-SENS-71	HGS.B26.R105.SO2	August 2017	August 1, 2019
H17-400966749-17-002	A-ULTX-SENS-17	HGS.B26.R105.H2S	August 2017	August 1, 2019
H17-400966749-48-002	A-ULTX-SENS-48	HGS.B26.R105.NH3	August 2017	August 1, 2019
H17-400966749-10-004	A-ULTX-SENS-14	HGS.B26.R201.O2	August 2017	August 1, 2019
H13-4416037-10-002	A-ULTX-SENS-48	HGS.B26.R201.NH3	August 2013	October 1, 2015
H17-400966749-20-001	A-ULTX-SENS-12	HGS.B26.R201.CO	October 2013	August 1, 2019
J13-4480986-10-007	A-ULTX-SENS-37	HGS.B26.R201.CO2	October 2013	September 29, 2023
H17-400966749-50-003	A-ULTX-SENS-71	HGS.B26.R201.SO2	August 2017	August 1, 2019
J16-400356578-20-005	A-ULTX-SENS-17	HGS.B26.R201.H2S	October 2016	October 1, 2018
J13-4480986-10-003	A-ULTX-SENS-37	HGS.B28.R107.CO2	October 2013	September 29, 2023
H17-400966749-10-005	A-ULTX-SENS-14	HGS.B28.R113.O2	August 2017	August 1, 2019

NETL ALBANY TOXIC GAS ALARM SYSTEMS IN-SERVICE FACILITY SENSORS AND R&D SAFETY SENSORS				
ID Number	Part Number:	Location	Manufacturing Date:	NETL Expiration Date:
G17-400939705-10-001	A-ULTX-SENS-14	HGS.B28.R114.O2	July 2017	July 1, 2019
F16-400588196-10-001	A-ULTX-SENS-12	HGS.B28.R114.CO	June 2016	June 1, 2018
L16-400741805-30-001	A-ULTX-SENS-71	HGS.B28.R114.SO2	December 2016	December 1, 2018
G16-400600701-30-005	A-ULTX-SENS-37	HGS.B28.R114.CO2	August 2016	June 29, 2026
H17-400966749-17-004	A-ULTX-SENS-17	HGS.B28.R114.H2S	August 2017	August 1, 2019
F15-400283306-10-001	A-ULTX-SENS-37	HGS.B28.R119.CO2	June 2015	May 29, 2025
H17-400966749-10-006	A-ULTX-SENS-14	HGS.B28.R119.O2	August 2017	August 1, 2019
J17-401005248-10-001	A-ULTX-SENS-14	HGS.B28.R121.O2	October 2017	October 1, 2019
J13-4480986-10-008	A-ULTX-SENS-37	HGS.B28.R121.CO2	October 2013	September 29, 2023
A16-400448840-10-004	A-ULTX-SENS-31	HGS.B28.R121.CH4 (LEL)	January 2016	December 31, 2018
H17-400966749-10-010	A-ULTX-SENS-14	HGS.B28.EGS.O2	August 2017	August 1, 2019
J13-4480986-10-002	A-ULTX-SENS-37	HGS.B28.EGS.CO2	October 2013	September 29, 2023
A16-400448840-10-005	A-ULTX-SENS-31	HGS.B28.EGS.CH4 (LEL)	January 2016	December 31, 2018
H17-400966749-50-004	A-ULTX-SENS-71	HGS.B28.EGS.SO2	August 2017	August 1, 2019
TBD	A-ULTX-SENS-12	HGS.B28.EGS.CO	TBD	TBD
H17-400966749-10-008	A-ULTX-SENS-14	HGS.B28.R117N.O2	August 2017	August 1, 2019
J13-4481710-10-003	A-ULTX-SENS-37	HGS.B28.R117N.CO2	October 2013	September 29, 2023
J15-400356578-30-001	A-ULTX-SENS-12	HGS.B28.R117N.CO	October 2015	September 30, 2017
H17-400966749-50-005	A-ULTX-SENS-71	HGS.B28.R117N.SO2	August 2017	August 1, 2019
A16-400448840-10-006	A-ULTX-SENS-31	HGS.B28.R117N.CH4 (LEL)	January 2016	December 31, 2018
H17-400966749-17-006	A-ULTX-SENS-17	HGS.B28.R117N.H2S	August 2017	August 1, 2019
A16-400448840-40-001	A-ULTX-SENS-23	HGS.B28.R117N.HCL	January 2016	December 31, 2017
H17-400966749-10-09	A-ULTX-SENS-14	HGS.B28.R117S.O2	August 2017	August 1, 2019
J13-4481710-10-003	A-ULTX-SENS-37	HGS.B28.R117S.CO2	October 2013	September 29, 2023
A16-400448840-20-002	A-ULTX-SENS-12	HGS.B28.R117S.CO	January 2016	December 31, 2017
H17-400966749-50-006	A-ULTX-SENS-71	HGS.B28.R117S.SO2	August 2017	August 1, 2019
A16-400448840-10-007	A-ULTX-SENS-31	HGS.B28.R117S.CH4 (LEL)	January 2016	December 31, 2018
H17-400966749-17-007	A-ULTX-SENS-17	HGS.B28.R117S.H2S	August 2017	August 1, 2019
A16-400448840-40-002	A-ULTX-SENS-23	HGS.B28.R117S.HCL	January 2016	December 31, 2017
I17-400978899-10-001	A-ULTX-SENS-14	HGS.B28.DPE.O2	September 2017	September 1, 2019
J13-4481710-10-001	A-ULTX-SENS-37	HGS.B28.DPE.CO2	October 2013	September 29, 2023

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ID Number	Part Number:	Location	Manufacturing Date:	NETL Expiration Date:
H17-400966749-50-007	A-ULTX-SENS-71	HGS.B28.DPE.SO2	August 2017	August 1, 2019
H17-400966749-17-008	A-ULTX-SENS-17	HGS.B28.DPE.H2S	August 2017	August 1, 2019
A16-400448840-20-001	A-ULTX-SENS-12	HGS.B28.DPE.CO	January 2016	December 31, 2017
A16-400448840-10-008	A-ULTX-SENS-31	HGS.B28.DPE.CH4 (LEL)	January 2016	December 31, 2018
D16-400536567-10-001	A-ULTX-SENS-23	HGS.B28.DPE.HCL	April 2016	April 1, 2018
I17-400981008-10-001	A-ULTX-SENS-49	HGS.B28.DPE.H2 (LEL)	September 2017	September 1, 2019
H17-400966749-10-005	A-ULTXE-SENS-14	HGS.B31.R101.DPE.O2	August 2017	August 1, 2019
TBD	A-ULTXE-SENS-xx	HGS.B31.R101.DPE.Gas1	TBD	<i>Future Request</i>
TBD	A-ULTXE-SENS-xx	HGS.B31.R101.DPE.Gas2	TBD	<i>Future Request</i>
L16-400741805-30-001	A-ULTXE-SENS-14	HGS.B31.R103A.DPE.O2	December 2016	December 1, 2018
TBD	A-ULTXE-SENS-xx	HGS.B31.R103A.DPE.Gas1	TBD	<i>Future Request</i>
TBD	A-ULTXE-SENS-xx	HGS.B31.R103A.DPE.Gas2	TBD	<i>Future Request</i>
H17-400966749-10-006	A-ULTXE-SENS-14	HGS.B31.R103B.O2	August 2017	August 1, 2019
TBD	A-ULTXE-SENS-xx	HGS.B31.R103B.DPE.Gas1	TBD	<i>Future Request</i>
TBD	A-ULTXE-SENS-xx	HGS.B31.R103B.DPE.Gas2	TBD	<i>Future Request</i>
J13-4480986-10-008	A-ULTXE-SENS-14	HGS.B31.R104A.O2	October 2013	September 29, 2023
TBD	A-ULTXE-SENS-xx	HGS.B31.R104A.DPE.Gas1	TBD	<i>Future Request</i>
TBD	A-ULTXE-SENS-xx	HGS.B31.R104A.DPE.Gas2	TBD	<i>Future Request</i>
J13-4480986-10-002	A-ULTXE-SENS-14	HGS.B31.R104B.O2	October 2013	September 29, 2023
TBD	A-ULTXE-SENS-xx	HGS.B31.R104B.DPE.Gas1	TBD	<i>Future Request</i>
TBD	A-ULTXE-SENS-xx	HGS.B31.R104B.DPE.Gas2	TBD	<i>Future Request</i>
TBD	A-ULTXE-SENS-xx	HGS.B31.R105.DPE.O2	TBD	<i>Future Request</i>
TBD	A-ULTXE-SENS-xx	HGS.B31.R105.DPE.Gas1	TBD	<i>Future Request</i>
TBD	A-ULTXE-SENS-xx	HGS.B31.R105.DPE.Gas2	TBD	<i>Future Request</i>
TBD	A-ULTXE-SENS-xx	HGS.B31.R111.DPE.O2	TBD	<i>Future Request</i>
TBD	A-ULTXE-SENS-xx	HGS.B31.R111.DPE.Gas1	TBD	<i>Future Request</i>
TBD	A-ULTXE-SENS-xx	HGS.B31.R111.DPE.Gas2	TBD	<i>Future Request</i>
A16-400448840-10-008	A-ULTXE-SENS-31	HGS.B31.WGS.DPE.O2	January 2016	December 31, 2018
TBD	A-ULTXE-SENS-xx	HGS.B31.WGS.DPE.Gas1	TBD	<i>Future Request</i>
TBD	A-ULTXE-SENS-xx	HGS.B31.WGS.DPE.Gas2	TBD	<i>Future Request</i>
TBD	A-ULTXE-SENS-xx	HGS.B31.WGS.DPE.Gas3	TBD	<i>Future Request</i>
J13-4481710-10-001	A-ULTXE-SENS-37	HGS.B31.EGS.DPE.O2	October 2013	September 29, 2023
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IN-SERVICE FACILITY SENSORS AND R&D SAFETY SENSORS				
ID Number	Part Number:	Location	Manufacturing Date:	NETL Expiration Date:
H17-400966749-17-008	A-ULTXE-SENS-17	HGS.B31.EGS.DPE.CO	August 2017	August 1, 2019
H17-400966749-50-007	A-ULTXE-SENS-71	HGS.B31.EGS.DPE.CO2	August 2017	August 1, 2019
TBD	A-ULTXE-SENS-xx	HGS.B31.EGS.DPE.Gas3	TBD	<i>Future Request</i>
H17-400966749-17-006	A-ULTXE-SENS-17	HGS.B31.R112.DPE.O2	August 2017	August 1, 2019
A16-400448840-40-001	A-ULTXE-SENS-23	HGS.B31.R112.DPE.CO2	January 2016	December 31, 2017
TBD	A-ULTXE-SENS-xx	HGS.B31.R112.DPE.Gas2	TBD	<i>Future Request</i>
H17-400966749-10-09	A-ULTXE-SENS-14	HGS.B31.R113.DPE.O2	August 2017	August 1, 2019
A16-400448840-20-002	A-ULTXE-SENS-12	HGS.B31.R113.DPE.CO	January 2016	December 31, 2017
J13-4481710-10-003	A-ULTXE-SENS-37	HGS.B31.R113.DPE.CO2	October 2013	September 29, 2023
H17-400966749-50-006	A-ULTXE-SENS-71	HGS.B31.R114.DPE.O2	August 2017	August 1, 2019
TBD	A-ULTXE-SENS-xx	HGS.B31.R114.DPE.Gas1	TBD	<i>Future Request</i>
TBD	A-ULTXE-SENS-xx	HGS.B31.R114.DPE.Gas2	TBD	<i>Future Request</i>
A16-400448840-40-002	A-ULTXE-SENS-23	HGS.B31.R115.DPE.O2	January 2016	December 31, 2017
TBD	A-ULTXE-SENS-xx	HGS.B31.R115.DPE.CO2	TBD	<i>New Installation (August 2016)</i>
TBD	A-ULTXE-SENS-xx	HGS.B31.R115.DPE.Gas2	TBD	<i>Future Request</i>
G16-400669346-10-001	A-ULTXE-SENS-11	HGS.B37.PEN1-T.CO	November 2013	November 1, 2015
G16-400600701-30-006	A-ULTXE-SENS-37	HGS.B37.PEN4-B.CO2	October 2013	September 29, 2023
G16-400600701-60-001	A-ULTXE-SENS-27	HGS.B37.PEN1-B.CH4/LEL	April 2014	March 31, 2016
G16-400600701-50-001	A-ULTXE-SENS-37	HGS.B37.PENT-T.H2S	October 2013	September 29, 2023
G16-400600701-40-001	A-ULTXE-SENS-23	HGS.B37.PEN4-T.SO2	June 2014	May 31, 2016

NETL ALBANY TOXIC GAS ALARM SYSTEMS NOT REQUIRED/OUT-OF-SERVICE FACILITY SENSORS AND R&D SAFETY SENSORS				
ID Number	Part Number:	Location	Manufacturing Date:	NETL Expiration Date:
H13-4416037-20-003	A-ULTX-SENS-14	HGS.B01.R101.O2	August 2013	OUT-OF-SERVICE
C15-400153449-10-001	A-ULTX-SENS-14	HGS.B01.R102.O2	March 2015	OUT-OF-SERVICE
J15-40035678-10-010	A-ULTX-SENS-14	HGS.B01.R109.O2	October 2015	OUT-OF-SERVICE
C15-400153449-10-002	A-ULTX-SENS-14	HGS.B01.R114.O2	March 2015	OUT-OF-SERVICE
J15-40035678-10-015	A-ULTX-SENS-14	HGS.B01.R119.O2	October 2015	OUT-OF-SERVICE

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NETL ALBANY TOXIC GAS ALARM SYSTEMS IN-SERVICE PROJECT SENSORS							
Instrument ID:	Model Number:	Manufacturer:	Sensor Serial Number:	PAN:	Location:	Gas Type:	"Best" Replace By Date:
435632	S4000CH	General Monitors	Project Operating - Cannot access sensor	0921	B-28 Mod 1	CH ₄	Unknown
436767	S4000CH	General Monitors	Project Operating - Cannot access sensor	0921	B-28 Mod 2	CH ₄	Unknown
436762	S4000CH	General Monitors	Project Operating - Cannot access sensor	0921	B-28 Mod 3	CH ₄	Unknown
435648	S4000CH	General Monitors	Project Operating - Cannot access sensor	0921	B-28 Mod 4	CH ₄	Unknown
436924	S4000CH	General Monitors	Project Operating - Cannot access sensor	0921	B-28 Mod 5	CH ₄	Unknown
435633	S4000CH	General Monitors	Project Operating - Cannot access sensor	0921	B-28 Mod 6	CH ₄	Unknown
436920	S4000CH	General Monitors	Project Operating - Cannot access sensor	0921	B-28 Gas Shed	CH ₄	Unknown
1193769	TS4000H	General Monitors	Project Operating - Cannot access sensor	0921	B-28 North Wall	H ₂ S	
1193685	TS4000H	General Monitors	Project Operating - Cannot access sensor	0921	B-28 South Wall	H ₂ S	
1193765	TS4000H	General Monitors	Project Operating - Cannot access sensor	0921	B-28 Mod 1	H ₂ S	
1193860	TS4000H	General Monitors	Project Operating - Cannot access sensor	0921	B-28 Mod 2	H ₂ S	
1193679	TS4000H	General Monitors	Project Operating - Cannot access sensor	0921	B-28 Mod 3	H ₂ S	

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NETL ALBANY TOXIC GAS ALARM SYSTEMS IN-SERVICE PROJECT SENSORS							
Instrument ID:	Model Number:	Manufacturer:	Sensor Serial Number:	PAN:	Location:	Gas Type:	"Best" Replace By Date:
1193871	TS4000H	General Monitors	Project Operating - Cannot access sensor	0921	B-28 Mod 4	H ₂ S	
1193569	TS4000H	General Monitors	Project Operating - Cannot access sensor	0921	B-28 Mod 5	H ₂ S	
1167482	TS4000H	General Monitors	Project Operating - Cannot access sensor	0921	B-28 Mod 6	H ₂ S	
1193759	TS4000H	General Monitors	Project Operating - Cannot access sensor	0921	B-28 Gas Shed	H ₂ S	Unknown
1193777	TS4000H	General Monitors	Project Operating - Cannot access sensor	0921	B-28 North Wall	SO ₂	
1193761	TS4000H	General Monitors	Project Operating - Cannot access sensor	0921	B-28 South Wall	SO ₂	
1193764	TS4000H	General Monitors	Project Operating - Cannot access sensor	0921	B-28 Mod 1	SO ₂	
1193751	TS4000H	General Monitors	Project Operating - Cannot access sensor	0921	B-28 Mod 2	SO ₂	
1193673	TS4000H	General Monitors	Project Operating - Cannot access sensor	0921	B-28 Mod 3	SO ₂	
1193688	TS4000H	General Monitors	Project Operating - Cannot access sensor	0921	B-28 Mod 4	SO ₂	
1193772	TS4000H	General Monitors	Project Operating - Cannot access sensor	0921	B-28 Mod 5	SO ₂	
1193768	TS4000H	General Monitors	Project Operating - Cannot access sensor	0921	B-28 Mod 6	SO ₂	Unknown
1193771	TS4000H	General Monitors	Project Operating - Cannot access sensor	0921	B-28 Gas Shed	SO ₂	
1193782	TS4000H	General Monitors	Project Operating - Cannot access sensor	0921	B-28 North Wall	CO	
1193803	TS4000H	General Monitors	Project Operating - Cannot access sensor	0921	B-28 South Wall	CO	

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NETL ALBANY TOXIC GAS ALARM SYSTEMS IN-SERVICE PROJECT SENSORS							
Instrument ID:	Model Number:	Manufacturer:	Sensor Serial Number:	PAN:	Location:	Gas Type:	“Best” Replace By Date:
1193760	TS4000H	General Monitors	Project Operating - Cannot access sensor	0921	B-28 Mod 1	CO	
1193776	TS4000H	General Monitors	Project Operating - Cannot access sensor	0921	B-28 Mod 2	CO	
1208268	TS4000H	General Monitors	Project Operating - Cannot access sensor	0921	B-28 Mod 3	CO	
1193796	TS4000H	General Monitors	Project Operating - Cannot access sensor	0921	B-28 Mod 4	CO	Unknown
1193788	TS4000H	General Monitors	Project Operating - Cannot access sensor	0921	B-28 Mod 5	CO	
1193767	TS4000H	General Monitors	Project Operating - Cannot access sensor	0921	B-28 Mod 6	CO	
1193786	TS4000H	General Monitors	Project Operating - Cannot access sensor	0921	B-28 Gas Shed	CO	
1193781	TS4000H	General Monitors	Project Operating - Cannot access sensor	0921	B-28 North Wall	HCl	Unknown
1193778	TS4000H	General Monitors	Project Operating - Cannot access sensor	0921	B-28 South Wall	HCl	Unknown
1193763	TS4000H	General Monitors	Project Operating - Cannot access sensor	0921	B-28 Mod 1	HCl	Unknown
1193773	TS4000H	General Monitors	Project Operating - Cannot access sensor	0921	B-28 Mod 2	HCl	Unknown
1193770	TS4000H	General Monitors	Project Operating - Cannot access sensor	0921	B-28 Mod 3	HCl	Unknown
1193774	TS4000H	General Monitors	Project Operating - Cannot access sensor	0921	B-28 Mod 4	HCl	Unknown
1193783	TS4000H	General Monitors	Project Operating - Cannot access sensor	0921	B-28 Mod 5	HCl	Unknown
1193775	TS4000H	General Monitors	Project Operating - Cannot access sensor	0921	B-28 Mod 6	HCl	Unknown

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NETL ALBANY TOXIC GAS ALARM SYSTEMS IN-SERVICE PROJECT SENSORS							
Instrument ID:	Model Number:	Manufacturer:	Sensor Serial Number:	PAN:	Location:	Gas Type:	"Best" Replace By Date:
1193787	TS4000H	General Monitors	Project Operating - Cannot access sensor	0921	B-28 Gas Shed	HCl	Unknown
436937	S4000CH	General Monitors	Project Operating - Cannot access sensor	0921	B-28 Gas Shed	H ₂	

NETL MORGANTOWN TOXIC GAS ALARM SYSTEMS IN-SERVICE FACILITY SENSORS AND R&D SAFETY SENSORS				
ID Number	Part Number:	Location	Manufacturing Date:	NETL Expiration Date:
Ultima	813723	B03 150 CLY.RM.O2	March 2016	March 2018
Ultima	813613	B03 150 COA, MIR	September 2016	September 2018
Ultima	813616	B03 150 H2SA, MIR	September 2016	September 2018
Ultima	813624	B03 150 LELB, MIR	December 2014	December 2017
Ultima	813624	B03 150 CLY.RM. LEL	March 2017	March 2020
Ultima	813613	B03 150 COB, HPR	April 2016	April 2018
Ultima	813616	B03 150 H2SB, HPR	November 2016	November 2018
Ultima	813624	B03 150 LED, HPR	November 2014	November 2017
Ultima	813615	B03 150 SO2D, HPR	July 2016	July 2018
Ultima	813624	B03 150 LELE, CSU	February 2016	February 2019
Ultima	813613	B03 150 COC, CSU	May 2016	May 2018
Ultima	813613	B03 160 CO	October 2017	October 2019
Ultima	813616	B03 160 H2S	September 2017	September 2019
Ultima	813723	B03 160 O2	May 2016	May 2018
Ultima	813624	B03 160 LEL	December 2014	December 2017
UltimaX	A-ULTX- SENS-3620	B03 160 MSL CO2	March 2016	March 2026
Ultima	813613	B04 CO 45' 1st Bay West	September 2016	September 2018
Ultima	813613	B04 CO-5' 1st Bay West	October 2017	October 2019
Ultima	813613	B04 CO-45' W/mid bay	September 2017	September 2019
Ultima	813613	B04 CO-5' W/mid bay	October 2017	October 2019
Ultima	813613	B04 CO-45' E/mid bay	October 2017	October 2019
Ultima	813613	B04 CO-5' E/mid bay	October 2017	October 2019
Ultima	813613	B04 CO-45' 3rd Bay East	October 2017	October 2019
Ultima	813613	B04 CO-5' 3rd Bay East	October 2017	October 2019
Ultima	813624	B04 LEL SOFCEL	December 2014	December 2017
Ultima	813613	B04 CO CLR Mid-bay	September 2016	September 2018
Ultima	813624	B04 LEL CLR Mid-bay	February 2016	February 2019
UltimaX	31-1-0	B04 LEL Gas Shed	March 2017	March 2020
UltimaX	12-1-0	B04 CO Gas Shed	March 2017	March 2019

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IN-SERVICE FACILITY SENSORS AND R&D SAFETY SENSORS				
ID Number	Part Number:	Location	Manufacturing Date:	NETL Expiration Date:
1S	473693	B05 TUNNEL LEL EAST	October 2016	October 2019
Ultima	813723	B05 TUNNEL O2 EAST	August 2017	August 2019
Ultima	813723	B05 TUNNEL O2 MID	January 2016	January 2018
1S	473693	B05 TUNNEL LEL MID	October 2016	October 2019
Ultima	813723	B05 TUNNEL O2 NORTH	June 2016	June 2018
1S	473693	B05 TUNNEL LEL NORTH	October 2016	October 2019
Ultima	813723	B05 TUNNEL O2 WEST	January 2016	January 2018
1S	473693	B05 TUNNEL LEL WEST	October 2016	October 2019
Ultima	813613	B05 BLRS CO EAST	October 2017	October 2019
Ultima	813624	B05 BLRS LEL EAST	September 2016	September 2019
UltimaX	12-6-0	B05 BLRS CO 20'	January 2016	January 2018
Ultima	813624	B05 BLRS LEL 20'	August 2016	August 2019
1S	473693	B05 NG REDUC LEL	December 2016	December 2019
Ultima	813613	B06 CO-A 103 GRD LVL	May 2016	May 2018
Ultima	813723	B06 O2-A 103 GRD LVL	September 2016	September 2018
Ultima	813624	B06 LEL-A 103 GRD LVL	July 2017	July 2020
Ultima	813624	B06 LEL-B 105 SOUTH	July 2017	July 2020
Ultima	813624	B06 LEL-C 105 NORTH	December 2014	December 2017
Ultima	813624	B06 LEL-D 105 N/E	December 2014	December 2017
Ultima	813613	B06 CO-B 105 NORTH	May 2016	May 2018
Ultima	813613	B06 CO-C 105 WEST	May 2016	May 2018
Ultima	813624	B06 LEL 103 LECTR	July 2017	July 2020
Ultima	813723	B06 O2-C 102	December 2016	December 2018
Ultima	813624	B06 LEL-E 102	July 2017	July 2020
Ultima	813624	B06 LEL-F 103 2ND LVL	July 2017	July 2020
Ultima	813723	B06 OX CONTRL RM.	September 2017	September 2019
Ultima	813624	B06 LEL-G MEZZ	July 2017	July 2020
Ultima	813613	B06 CO-D MEZZ	April 2016	April 2018
Ultima	813723	B06 O2-D MEZZ	September 2017	September 2019
Ultima	813619	B06 NO-A MEZZ	March 2016	March 2018

NETL MORGANTOWN TOXIC GAS ALARM SYSTEMS

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IN-SERVICE FACILITY SENSORS AND R&D SAFETY SENSORS				
ID Number	Part Number:	Location	Manufacturing Date:	NETL Expiration Date:
Ultima	813620	B06 NO2-A MEZZ	December 2016	December 2018
Ultima	813613	B06 CO-E 103 2ND LVL	September 2017	September 2019
Ultima	813723	B06 OX-E 103 2ND LVL	September 2017	September 2019
Ultima	813613	B06 CO-F CONTROL RM.	April 2016	April 2018
UltimaX	A-ULTX- SENS-1410	B13 Bio-mass O2	January 2016	January 2018
UltimaX	A-ULTX-SENS-3110	B13 Spouting Bed Reactor LEL	February 2017	February 2020
TBD	TBD	B14 H2S	TBD	<i>New Installation</i> (January 2017)
TBD	TBD	B14 H2S	TBD	<i>New Installation</i> (January 2017)
TBD	TBD	B14 H2S	TBD	<i>New Installation</i> (January 2017)
TBD	TBD	B14 H2S	TBD	<i>New Installation</i> (January 2017)
TBD	TBD	B14 H2S	TBD	<i>New Installation</i> (February 2017)
TBD	TBD	B14 H2S	TBD	<i>New Installation</i> (February 2017)
TBD	TBD	B14 H2S	TBD	<i>New Installation</i> (February 2017)
TBD	TBD	B14 CO	TBD	<i>New Installation</i> (January 2017)
TBD	TBD	B14 CO	TBD	<i>New Installation</i> (January 2017)
TBD	TBD	B14 CO	TBD	<i>New Installation</i> (January 2017)
TBD	TBD	B14 CO	TBD	<i>New Installation</i> (January 2017)
TBD	TBD	B14 CO	TBD	<i>New Installation</i> (February 2017)
TBD	TBD	B14 CO	TBD	<i>New Installation</i> (February 2017)
TBD	TBD	B14 CO	TBD	<i>New Installation</i> (February 2017)
TBD	TBD	B14 CO	TBD	<i>New Installation</i> (February 2017)
TBD	TBD	B14 LEL	TBD	<i>New Installation</i> (January 2017)
TBD	TBD	B14 LEL	TBD	<i>New Installation</i> (January 2017)
TBD	TBD	B14 LEL	TBD	<i>New Installation</i> (January 2017)
TBD	TBD	B14 LEL	TBD	<i>New Installation</i> (January 2017)
TBD	TBD	B14 LEL	TBD	<i>New Installation</i> (February 2017)
TBD	TBD	B14 LEL	TBD	<i>New Installation</i> (February 2017)
TBD	TBD	B14 LEL	TBD	<i>New Installation</i> (February 2017)
TBD	TBD	B14 HCL	TBD	<i>New Installation</i> (January 2017)
Ultima	813616	B17 Rm. 16 H2S	September 2017	September 2019
Ultima	813624	B17 Rm. 16 LEL	December 2014	December 2017
UltimaX	A-ULTX-SENS-3620	B17 CTScan CO2 East	October 2012	October 2022

NETL MORGANTOWN TOXIC GAS ALARM SYSTEMS IN-SERVICE FACILITY SENSORS AND R&D SAFETY SENSORS				
ID Number	Part Number:	Location	Manufacturing Date:	NETL Expiration Date:
UltimaX	A-ULTX-SENS-3620	B17 CTScan CO2 West	October 2012	October 2022
Ultima	813624	B17 CTScan LEL East	February 2016	February 2019
Ultima	813624	B17 CTScan LEL West	February 2016	February 2019
Ultima	813723	B17 Basement Xraylab O2	July 2016	July 2018
UltimaX	A-ULTX-SENS-3620	B17 Basement Xraylab CO2	October 2014	October 2024
Ultima	813624	B17 Basement Xraylab LEL	July 2017	July 2020
Ultima	813723	B17 Medunit Xraylab O2	September 2017	September 2019
UltimaX	A-ULTX-SENS-3620	B17 Medunit Xraylab CO2	November 2014	November 2024
Ultima	813624	B17 Medunit Xraylab LEL	November 2016	November 2019
Ultima	813723	B17 Rm. 11 O2	April 2017	April 2019
UltimaX	A-ULTX-SENS-3620	B17 Rm. 11 CO2	TBD	<i>New Installation (December 2016)</i>
Ultima	813624	B17 Rm. 11 LEL	December 2014	December 2017
Ultima	813624	B17 EGC LEL	May 2015	May 2018
UltimaX	A-ULTX-SENS-3620	B17 EGC CO2	April 2015	April 2025
Ultima	813616	B17 EGC H2S	March 2017	March 2019
UltimaX	A-ULTX-SENS-3620	B17 Cell 1 – RASCAL CO2	November 2016	November 2026
UltimaX	A-ULTX-SENS-1410	B17 Cell 1 – RASCAL O2	November 2016	November 2018
UltimaX	A-UTLX-SENS-3110	B17 Cell 1 – RASCAL LEL	February 2017	February 2020
UltimaX	A-UTLX-SENS-3620	B17 Cell 2 – LIBS CO2	January 2017	January 2027
UltimaX	A-UTLX-SENS-1410	B17 Cell 2 – LIBS O2	January 2017	January 2019
Ultima	813613	B25 1 SEM-106-CO	May 2016	May 2018
Ultima	813624	B25 1 SEM-106-LEL	August 2015	August 2018
Ultima	813613	B25 1 SLAB-111-CO	April 2016	April 2018
Ultima	813624	B25 1 SLAB-111-LEL	August 2015	August 2018
Ultima	813613	B25 1 WLAB-112-CO	May 2016	May 2018
Ultima	813613	B25 1 CMAT-114-CO	May 2016	May 2018
Ultima	813624	B25 1 CMAT-114-LEL	August 2015	August 2018
Ultima	813624	B25 1 101 LEL	October 2015	October 2018
Ultima	813615	B25 1 ANLI-115-SO2	March 2016	March 2018

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NETL MORGANTOWN TOXIC GAS ALARM SYSTEMS IN-SERVICE FACILITY SENSORS AND R&D SAFETY SENSORS				
ID Number	Part Number:	Location	Manufacturing Date:	NETL Expiration Date:
Ultima	813616	B25 1 ANLI-115-H2S	November 2016	November 2018
Ultima	813613	B25 1 ANLI-115-CO	December 2015	December 2017
Ultima	813624	B25 1 ANLI-115-LEL	October 2015	October 2018
Ultima	813723	B25 1 MAG-101-O2	March 2016	March 2018
Ultima	813723	B25 1 110 O2	April 2017	April 2019
Ultima	813613	B25 1 101-CO	April 2016	April 2018
Ultima	10018903	B25 1 115-NH3	November 2016	November 2018
Ultima	813624	B25 1 110-LEL	June 2015	June 2018
Ultima	813613	B25 1 110-CO	April 2016	April 2018
TBD	TBD	B25 1 113-O2	TBD	<i>New Installation</i> (November 2016)
TBD	TBD	B25 1 113-TBD	TBD	<i>New Installation</i> (November 2016)
Ultima	813613	B25 2 214 CO	March 2016	March 2018
Ultima	813624	B25 2 XRD-204 LEL	February 2016	February 2019
Ultima	813615	B25 2 215 SO2	July 2016	July 2018
Ultima	10018903	B25 2 201 NH3	November 2016	November 2018
Ultima	813616	B25 2 214 H2S	May 2016	May 2018
Ultima	813624	B25 2 215 LEL	February 2016	February 2019
Ultima	813615	B25 2 214 SO2	March 2016	March 2018
Ultima	813619	B25 2 KIN-210 NO	September 2017	September 2019
Ultima	813624	B25 2 GC-214 LEL	August 2017	August 2020
Ultima	813613	B25 2 XRD-204 CO	September 2017	September 2019
Ultima	813624	B25 2-KIN-210 LEL1 West	February 2016	February 2019
Ultima	813624	B25 2 KIN-210 LEL2 East	July 2017	July 2020
Ultima	813613	B25 2 201 CO	July 2017	July 2019
Ultima	813616	B25 2 201 H2S	May 2016	May 2018
Ultima	813624	B25 2 201 LEL	February 2016	February 2019
Ultima	813615	B25 2 201 SO2	July 2016	July 2018
Ultima	10029338	B25 2 210 CO2	July 2011	July 2016
Ultima	813613	B25 2 210 CO East	March 2016	March 2018
Ultima	813723	B25 2 210 O2	September 2017	September 2019
Ultima	813613	B25 2 KIN-210 CO West	September 2017	September 2019
Ultima	813613	B25 2 215 CO	April 2016	April 2018

NETL MORGANTOWN TOXIC GAS ALARM SYSTEMS IN-SERVICE FACILITY SENSORS AND R&D SAFETY SENSORS				
ID Number	Part Number:	Location	Manufacturing Date:	NETL Expiration Date:
Ultima	813616	B25 2 215 H2S	September 2016	September 2018
Ultima	813723	B25 2 215 O2	March 2017	March 2019
1S	473693	LEL NG CMPRESR (4) DI	June 2016	June 2019
UltimaX	A-ULTX- SENS-1260	B36 CO 1st Bay South	October 2015	October 2017
UltimaX	A-ULTX- SENS-1260	B36 CO Hallway	October 2015	October 2017
UltimaX	A-ULTX- SENS-1260	B36 CO 3rd Bay North	October 2015	October 2017
UltimaX	A-ULTX- SENS-1260	B36 CO Lunch Room	October 2015	October 2017
UltimaX	A-ULTX-SENS-1210	B39 Penthouse Boilers CO	May 2016	May 2018
UltimaX	A-ULTX-SENS-3110	B39 Penthouse Boilers LEL	March 2015	March 2018
UltimaX	A-ULTX-SENS-1410	B39 Generator O2	September 2017	September 2019
UltimaX	A-ULTX-SENS-3210	B39 Generator LEL Low (1)	May 2015	May 2018
UltimaX	A-ULTX-SENS-3210	B39 Generator LEL High (2)	February 2016	February 2019
Chillgard RT	NA	B39 Chillgard Refrigerant Monitor	NA	NA

NETL MORGANTOWN TOXIC GAS ALARM SYSTEMS NOT REQUIRED/OUT-OF-SERVICE FACILITY SENSORS AND R&D SAFETY SENSORS				
ID Number	Part Number:	Location	Manufacturing Date:	NETL Expiration Date:
Ultima	813615	B03 150 SO2B, MIR	July 2016	July 2018 (NOT REQUIRED, WO 6/13/17)
Ultima	813615	B03 150 SO2D, HPR	July 2016	July 2018 (NOT REQUIRED, WO 6/13/17)
Ultima	813624	B04 LEL AFC East	October 2016	October 2019 (NOT REQUIRED, WO 6/13/17)
Ultima	813624	B04 LEL AFC 25'	October 2016	OUT-OF-SERVICE
Ultima	813624	B04 LEL AFC West	December 2014	OUT-OF-SERVICE
Ultima	813616	B25 1 SLAB-111-H2S	March 2015	OUT-OF-SERVICE
Ultima	813624	B25 1 WLAB-112-LEL	February 2016	OUT-OF-SERVICE
Ultima	813624	B25 1 WLAB-112-LEL	February 2016	OUT-OF-SERVICE
Ultima	813615	B25 1 CMAT-114-SO2	March 2016	OUT-OF-SERVICE
Ultima	813616	B25 1 CMAT-114-H2S	January 2015	OUT-OF-SERVICE
Ultima	813616	B25 1 101-H2S	-	OUT-OF-SERVICE
Ultima	813616	B25 1 110-H2S	-	OUT-OF-SERVICE
Ultima	813624	B25 2 HPLL-206-LEL	-	OUT-OF-SERVICE
Ultima	813624	B25 2 ORGN-205-LEL	-	OUT-OF-SERVICE
Ultima	813616	B25 2 ORGN-205-H2S	-	OUT-OF-SERVICE
Ultima	10018903	B25_2 214 NH3	May 2016	May 2018 (NOT REQUIRED, WO 6/13/17)
Ultima	10018903	B25_2 215 NH3	June 2016	June 2018 (NOT REQUIRED, WO 6/13/17)
Ultima	813616	B25_2 XRD-204 H2S	May 2016	May 2018 (NOT REQUIRED, WO 6/13/17)
Ultima	813623	B25 2 215 HCL	-	OUT-OF-SERVICE

**NETL MORGANTOWN TOXIC GAS ALARM SYSTEMS
IN-SERVICE PROJECT SENSORS**

Instrument ID:	Model Number:	Part Number:	Sensor Serial Number:	PAN:	Building	Manufacturing Date:	“Best” Replace By Date:
0000102562	ULTIMA XA LEL	A-ULTX-SENS-3100	E10-3427314-30-001	0533	B-3 SOFCEL AIT-5005 TS1	July 2015	July 2018
0000102564	ULTIMA XA LEL	A-ULTX-SENS-3100	E10-3427314-002	0533	B-3 SOFCEL AIT-3005 TS2	July 2015	July 2018
0000105217	ULTIMA XE	A-ULTX-SENS-31-1-0	H07-2558260-20-001	0602	B-4	August 2007	July 2010
0000105218	ULTIMA XE	A-ULTX-SENS-12-1-0	E14-4678438-10-001	0602	B-4 FPU	May 2014	April 2016
E4815	5100-02-IT-AL02	5100-02-IT	No markings	0560	B-4 SOFCEL		November 2012
813613	ULTIMA CO	813613	TBD	0512	B-4 HPR AT-001	February 2017	February 2019
E5228	ULTIMA	CO25-E/F	No markings	0512	B-4 HPR		July 2012
813624	ULTIMA LEL	813624	TBD	0512	B-4 HPR AT-002	October 2016	October 2019
TBD	SIERRA LEL	5200-02-IT-AL	TBD	0560	B-4 SOFCEL AISH-31A	January 2017	January 2020
40011528	SCOTT LEL	40011528	TBD	0560	B-4 SOFCEL AISH-31B	December 2016	December 2017
813624	Ultima LEL	813624	No markings	0560	B-4 SOFCEL AISH-32A	March 2016	March 2019
40011528	Scott	40011528	TBD	0560	B-4 SOFCEL AISH-32B	December 2016	December 2017
TBD	UltimaX LEL	A-UTLX-SENS-3110	TBD	0560	B-4 SOFCEL MCA AIT-8	October 2016	October 2019 (powered down)
E5384	ULTIMA X LEL	A-ULTX-SENS-3110	H10-3521255-10-001	0503	B-6 H2 AE-H460	August 2010	August 2013
102652	ULTIMA X LEL	A-ULTX-SENS-3110	A15-400138295-10-001	0503	B-4 H2 Delivery ASH-H460	October 2016	October 2019 (powered down)

**NETL MORGANTOWN TOXIC GAS ALARM SYSTEMS
NOT IN-SERVICE PROJECT SENSORS**

Instrument ID:	Model Number:	Part Number:	Sensor Serial Number:	PAN:	Building	Manufacturing Date:	“Best” Replace By Date:
102860	ULTIMA XL		Not in Use	0602	B-4 FPU		
102861	ULTIMA XL	40847	Not in Use	0602	B-4 FPU		
102862	ULTIMA XL	40851	Not in Use	0602	B-4 FPU		
102863	ULTIMA XL	40851	Not in Use	0602	B-4 FPU		
1206873	ULTIMA X LEL	39176	Not in Use	0503	B-6 C3H8		
E5234	ULTIMA X	39596	Not in Use	0638	B-13 H2		
0000102560	ULTIMA XL	40274	Not in Use	0533	B-3		
0000102561	ULTIMA XL	40274	Not in Use	0533	B-3		
0000102563	ULTIMA XL	40274	Not in Use	0533	B-3		
1206552	ULTIMA X-CO	39596	Not in Use	0638	B-13 DSL		
1206569	4888A-NIC-LEL	39596	Not in Use	0638	B-13 DSL		
E5232	4107-02	40084	Not in Use	0560	B-4 SOFC		
TBD	ULTIMA X	A-ULTX-SENS-1210	TBD	0560	B-4 SOFCEL	October 2016	October 2018
1206606	ULTIMA X	A-ULTX-SENS-31-1-0	E10-3425107-10-001	0559	B-4 DFC	May 2010	April 2013 (REMOVED)
1206613	ULTIMA X	A-ULTX-SENS-31-1-0	J10-3553568-10-001	0559	B-4 DFC	October 2010	September 2013 (REMOVED)
1206620	ULTIMA X	A-ULTX-SENS-12-1-0	E14-4678438-10-003	0559	B-4 DFC	May 2014	April 2017 (REMOVED)
1206637	ULTIMA X	A-ULTX-SENS-31-1-0	C06-2054653-10-001	0559	B-4 DFC	March 2006	February 2009 (REMOVED)
1206644	ULTIMA X	A-ULTX-SENS-31-1-0	A11-3619096-20-001	0559	B-4 DFC	January 2011	December 2013 (REMOVED)
1206910	ULTIMA	ULTX-SENS-REMOTE	Unable to access	0559	B-4 DFC		February 2018 (REMOVED)
1206927	ULTIMA	ULTX-SENS-REMOTE	Unable to access	0559	B-4 DFC		February 2018 (REMOVED)

NETL PITTSBURGH TOXIC GAS ALARM SYSTEMS IN-SERVICE FACILITY SENSORS AND R&D SAFETY SENSORS				
ID Number	Part Number:	Location	Manufacturing Date:	NETL Expiration Date:
MSA-XE	12-1	B58 Boiler CO	December 2016	December 2018
MSA-XE	31-1	B-64 Room # 1 LEL	February 2017	February 2020
MSA-XE	14-1	B-64 Room # 1 O2	June 2017	June 2019
MSA-XE	31-1	B-64 Room # 2 LEL	February 2017	February 2020
MSA-XE	14-1	B-64 Room # 2 O2	May 2017	May 2019
TBD	TBD	B65 Gas Cylinder Storage CO	TBD	(New Installation Request)
TBD	TBD	B65 Gas Cylinder Storage H2S	TBD	(New Installation Request)
TBD	TBD	B65 Gas Cylinder Storage LEL	TBD	(New Installation Request)
TOX- GUARD	802657	B74 Tank LEL	April 2017	April 2020
MSA-XE	12-1	B74 Boiler CO	December 2015	December 2017
MSA-XE	31-1	B74 Boiler LEL	October 2014	October 2017
MSA-XE	12-1	B74 Gen Rm. CO	October 2016	October 2018
MSA-XE	12-1	B83 Boiler CO (1NE)	October 2016	October 2018
MSA-XE	31-1	B83 Boiler LEL (1NE)	November 2017	November 2020
MSA-XE	14-1	B83 Rm.239 O2 (S)	July 2016	July 2018
MSA-XE	14-1	B83 Rm.239 O2 (N)	July 2016	July 2018
MSA-XE	31-1	B83 Rm.241 LEL (S)	November 2014	November 2017
MSA-XE	14-1	B83 Rm.241 O2 (S)	July 2016	July 2018
MSA-XE	31-1	B83 Rm.241 LEL (N)	November 2014	November 2017
MSA-XE	14-1	B83 Rm.241 O2 (N)	July 2016	July 2018
MSA-XE	14-1	B83 Rm.242 O2 (N)	July 2016	July 2018
MSA-XE	14-1	B83 Rm.242 O2 (Cent.)	July 2016	July 2018
MSA-XE	31-1	B83 LEL Boiler Rm.(3N)	October 2016	October 2019
MSA-XE	12-1	B83 CO Boiler Rm.(3N)	October 2016	October 2018
MSA-XE	12-1	B83 Rm.315 CO (SW)	March 2017	March 2019
MSA-XE	31-1	B83 Rm.315 LEL (SW)	March 2016	March 2019
MSA-XE	12-1	B83 Rm.315 CO (NW)	March 2017	March 2019
MSA-XE	31-1	B83 Rm.315 LEL (NW)	March 2016	March 2019
MSA-XE	12-1	B83 Rm.315 CO (NE)	March 2017	March 2019
MSA-XE	31-1	B83 Rm.315 LEL (NE)	March 2016	March 2019
MSA-XE	12-1	B83 Rm.315 CO (E)	March 2017	March 2019

NETL PITTSBURGH TOXIC GAS ALARM SYSTEMS IN-SERVICE FACILITY SENSORS AND R&D SAFETY SENSORS				
ID Number	Part Number:	Location	Manufacturing Date:	NETL Expiration Date:
MSA-XE	31-1	B83 Rm.315 LEL (E)	March 2016	March 2019
MSA-XE	14-1	B83 Rm.315 O2 (S)	September 2016	September 2018
MSA-XE	14-1	B83 Rm.315 O2 (N)	March 2017	March 2019
MSA-XE	12-1	B83 Rm.332 CO (N)	March 2017	March 2019
MSA-XE	31-1	B83 Rm.332 LEL (N)	May 2015	May 2018
MSA-XE	14-1	B83 Rm.332 O2 (N)	September 2016	September 2018
MSA-XE	12-1	B83 Rm.332 CO (S)	March 2017	March 2019
MSA-XE	31-1	B83 Rm.332 LEL (S)	May 2015	May 2018
MSA-XE	14-1	B83 Rm.332 O2 (S)	May 2017	May 2019
MSA-XE	12-1	B83 Rm.334 CO (N)	March 2017	March 2019
MSA-XE	16-1	B83 Rm.334 H2S (N)	May 2017	May 2019
MSA-XE	31-1	B83 Rm.334 LEL (N)	May 2015	May 2018
MSA-XE	14-1	B83 Rm.334 O2 (N)	March 2017	March 2019
MSA-XE	12-1	B83 Rm.334 CO (S)	March 2017	March 2019
MSA-XE	21-1	B83 Rm.334 NO2 (S)	March 2017	March 2019
MSA-XE	31-1	B83 Rm.334 LEL (S)	May 2015	May 2018
MSA-XE	14-1	B83 Rm.334 O2 (S)	August 2016	August 2018
MSA-XE	31-1	B83 Rm.339 LEL (N)	May 2015	May 2018
MSA-XE	14-1	B83 Rm.339 O2 (N)	October 2016	October 2018
MSA-XE	31-1	B83 Rm.339 LEL (S)	December 2014	December 2017
MSA-XE	14-1	B83 Rm.339 O2 (S)	October 2016	October 2018
MSA-XE	12-1	B83 Rm.340 CO (N)	May 2017	May 2019
MSA-XE	31-1	B83 Rm.340 LEL (N)	March 2016	March 2019
MSA-XE	14-1	B83 Rm.340 O2 (N)	March 2017	March 2019
MSA-XE	12-1	B83 Rm.340 CO (S)	May 2017	May 2019
MSA-XE	31-1	B83 Rm.340 LEL (S)	March 2016	March 2019
MSA-XE	14-1	B83 Rm.340 O2 (S)	October 2016	October 2018
MSA-XE	14-1	B83 Rm.341 CO (N)	March 2017	March 2019
MSA-XE	31-1	B83 Rm.341 LEL (N)	May 2015	May 2018
MSA-XE	14-1	B83 Rm.341 O2 (N)	May 2017	May 2019

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NETL PITTSBURGH TOXIC GAS ALARM SYSTEMS IN-SERVICE FACILITY SENSORS AND R&D SAFETY SENSORS				
	Part Number:	Location	Manufacturing Date:	NETL Expiration Date:
MSA-XE	14-1	B83 Rm.341 CO (S)	March 2017	March 2019
MSA-XE	31-1	B83 Rm.341 LEL (S)	May 2015	May 2018
MSA-XE	14-1	B83 Rm.341 O2 (S)	March 2017	March 2019
MSA-XE	14-1	B84 Rm.#125 O2 (S)	October 2016	October 2018
MSA-XE	14-1	B84 Rm.#125 O2 (N)	October 2016	October 2018
MSA-XE	14-1	B84 Rm.#129A O2	October 2016	October 2018
MSA-XE	31-1	B84 Rm.#129A LEL	November 2017	November 2020
MSA-XE	14-1	B84 Rm.#129 O2	October 2016	October 2018
MSA-XE	14-1	B84 Rm.#131 O2	May 2017	May 2019
MSA-XE	12-1	B84 Rm.#133 CO	March 2017	March 2019
MSA-XE	14-1	B84 Rm.#133 O2	May 2017	May 2019
MSA-XE	12-1	B84 GenRm.# 128 CO	May 2017	May 2019
MSA-XE	31-1	B84 GenRm.# 128 LEL	July 2016	July 2019
MSA-XE	14-1	B84. Rm.#117 O2	August 2016	August 2018
MSA-XE	12-1	B84. Rm.#117 CO	August 2016	August 2018
MSA-XE	31-1	B84 Rm.#117 LEL	March 2016	March 2019
MSA-XE	72-1	B84 Rm.#117 NO2	October 2016	October 2018
MSA-XE	12-1	B84 Rm.#118 CO (S)	February 2016	October 2018
MSA-XE	14-1	B84 Rm.#118 O2 (S)	February 2016	May 2018
MSA-XE	31-1	B84 Rm.#118 LEL (S)	May 2015	May 2018
MSA-XE	12-1	B84 Rm.#118 CO (C)	February 2016	February 2018
MSA-XE	14-1	B84 Rm.#118 O2 (C)	February 2016	July 2018
MSA-XE	31-1	B84 Rm.#118 LEL(C)	August 2016	August 2018
MSA-XE	12-1	B84 Rm.#118 CO (N)	February 2016	May 2018
MSA-XE	14-1	B84 Rm.#118 O2 (N)	February 2016	March 2018
MSA-XE	31-1	B84 Rm.#118 LEL (N)	March 2016	March 2019
MSA-XE	14-1	B84 Rm.#119 O2 (S)	June 2017	June 2019
MSA-XE-IR	37-1	B84 Rm.#119 CO2 (S)	July 2015	July 2025
MSA-XE	14-1	B84 Lab.#216 O2 (E)	July 2016	July 2018

NETL PITTSBURGH TOXIC GAS ALARM SYSTEMS IN-SERVICE FACILITY SENSORS AND R&D SAFETY SENSORS					
ID Number	Part Number:	Location	Manufacturing Date:	NETL Expiration Date:	
MSA-XE	14-1	B84 Lab.#220 O2 (S)	March 2016	March 2018	
MSA-XE	31-1	B84 Lab.#220 LEL (S)	March 2016	March 2019	
MSA-XE	12-1	B84 Lab.#325 CO (N)	October 2016	October 2018	
MSA-XE	31-1	B84 Lab.#325 LEL (N)	July 2016	July 2019	
MSA-XE	14-1	B84 Lab.#325 O2 (N)	October 2016	October 2018	
MSA-XE	14-1	B84 Rm.#328 O2 (S)	June 2017	June 2019	
MSA-XE	31-1	B84 Rm.#328 LEL (S)	October 2016	October 2019	
MSA-XE	14-1	B84 Pent. O2 (S)	March 2017	March 2019	
MSA-XE	12-1	B84 Pent. CO (W)	July 2016	July 2018	
MSA-XE	31-1	B84 Pent. LEL	July 2016	July 2019	
MSA-XE	70-1	B84 Pent. SO2	July 2016	July 2018	
MSA-XE	12-1	B84 Pent. CO (S)	July 2016	July 2018	
MSA-XE	21-1	B84 Pent. NO2	March 2016	March 2018	
MSA-XE	12-1	B84 Pent. CO (N)	June 2017	June 2019	
MSA-XE	31-1	B84 Pent. LEL (N)	March 2016	March 2019	
MSA-XE	12-1	B84 Summer Boiler CO	May 2017	May 2019	
MSA-XE	14-1	B84 Summer Boiler O2	July 2016	July 2018	
MSA-XE	31-1	B84 Summer Boiler LEL	April 2016	April 2019	
MSA-XE	31-1	B89 BUNKER LEL	March 2015	March 2018	
MSA-XE	31-1	B92 Chem. H. LEL (P.Rm.)	March 2016	March 2019	
MSA-XE	14-1	B92 Chem. H. O2 (P.Rm.)	September 2016	September 2018	
MSA-XE	31-1	B92 Chem. H. LEL (N)	March 2016	March 2019	
MSA-XE	31-1	B92 Chem. H. LEL (NW)	March 2016	March 2019	
MSA-XE	12-1	B94 Gen. Rm.CO (S)	June 2017	June 2019	
MSA-XE	12-1	B94 High Bay CO (NE)	October 2016	October 2018	(Under Evaluation)
MSA-XE	31-1	B94 High Bay LEL (NE)	March 2016	March 2019	(Under Evaluation)
MSA-XE	16-1	B94 High Bay H2S (E)	October 2016	October 2018	(Under Evaluation)
MSA-XE	31-1	B94 High Bay LEL (E)	November 2014	November 2017	(Under Evaluation)
MSA-XE	12-1	B94 High Bay CO (E)	March 2016	March 2018	(Under Evaluation)

NETL PITTSBURGH TOXIC GAS ALARM SYSTEMS IN-SERVICE FACILITY SENSORS AND R&D SAFETY SENSORS				
ID Number	Part Number:	Location	Manufacturing Date:	NETL Expiration Date:
MSA-XE	21-1	B94 High Bay NO2 (E)	December 2016	December 2018 (Under Evaluation)
MSA-XE	19-1	B94 High Bay SO2 (E)	October 2016	October 2018 (Under Evaluation)
MSA-XE	12-1	B94 High Bay CO (E)	March 2016	March 2018 (Under Evaluation)
MSA-XE	31-1	B94 High Bay LEL (E)	October 2016	October 2019 (Under Evaluation)
MSA-XE	21-1	B94 High Bay NO2 (W)	December 2016	December 2018 (Under Evaluation)
MSA-XE	19-1	B94 High Bay SO2 (W)	January 2017	January 2019 (Under Evaluation)
MSA-XE	12-1	B94 High Bay CO (W)1	October 2016	October 2018 (Under Evaluation)
MSA-XE	31-1	B94 High Bay LEL (W)1	March 2016	March 2019 (Under Evaluation)
MSA-XE	16-1	B94 High Bay H2S (W)1	October 2016	October 2018 (Under Evaluation)
MSA-XE	12-1	B94 High Bay CO (W)2	March 2016	March 2018 (Under Evaluation)
MSA-XE	31-1	B94 High Bay LEL (W)2	October 2016	October 2019 (Under Evaluation)
MSA-XE	12-1	B94 High Bay CO (W)3	March 2016	March 2018 (Under Evaluation)
MSA-XE	16-1	B94 High Bay H2S (W)3	March 2016	March 2018 (Under Evaluation)
MSA-XE	31-1	B94 High Bay LEL (W)3	October 2016	October 2019 (Under Evaluation)
MSA-XE	12-1	B94 LAB # B02 CO	March 2016	March 2018
MSA-XE	31-1	B94 LAB # B02 LEL	October 2016	October 2019
MSA-XE	14-1	B94 LAB # B02 O2	March 2016	March 2018
MSA-XE	14-1	B94 Lab 404 CO(W)	October 2016	October 2018
MSA-XE	14-1	B94 Lab 404 O2(W)	May 2017	May 2019
TBD	TBD	B94 Lab 404 LEL (W)	TBD	TBD
MSA-XE	16-1	B94 Lab 407 H2S (E)	October 2016	October 2018
MSA-XE	14-1	B94 Lab 407 O2 (E)	October 2016	October 2018
MSA-XE	31-1	B94 Lab 407 LEL (E)	May 2015	May 2018
MSA-XE	16-1	B94 Lab 407 H2S (N)	October 2016	October 2018
MSA-XE	14-1	B94 Lab 407 O2 (N)	October 2016	October 2018
MSA-XE	31-1	B94 Lab 407 LEL (N)	May 2015	May 2018
MSA-XE	14-1	B94 Lab 410 O2 (W)	July 2016	July 2018
MSA-XE	12-1	B94 Lab 410 CO (W)	October 2016	October 2018
MSA-XE	31-1	B94 Lab 410 LEL (W)	May 2015	May 2018

NETL PITTSBURGH TOXIC GAS ALARM SYSTEMS IN-SERVICE FACILITY SENSORS AND R&D SAFETY SENSORS				
ID Number	Part Number:	Location	Manufacturing Date:	NETL Expiration Date:
MSA-XE	14-1	B94 Lab 410 O2 (S)	March 2017	March 2019
MSA-XE	12-1	B94 Lab 410 CO (S)	March 2017	March 2019
MSA-XE	31-1	B94 Lab 410 LEL (S)	May 2015	May 2018
MSA-XE	12-1	B94 Lab 419 CO (S)	March 2016	March 2018
MSA-XE	31-1	B94 Lab 419 LEL (S)	October 2016	October 2019
MSA-XE	14-1	B94 Lab 419 O2 (S)	March 2016	March 2018
MSA-XE	14-1	B94 Pent. O2	May 2017	May 2019
MSA-XE	12-1	B94 Pent. CO (W)	June 2017	June 2019
MSA-XE	12-1	B167 Boiler Rm. CO	July 2016	July 2018
MSA-XE	31-1	B167 Boiler Rm. LEL	July 2016	July 2018
MSA-XE	12-1	B900 Boiler CO	July 2016	July 2018
MSA-XE	12-1	B920 Boiler CO	October 2016	October 2018
MSA-XE	12-1	B921 Boiler CO	July 2016	July 2018
MSA-XE	31-1	B922 Copy Rm. LEL	November 2017	November 2020
MSA-XE	12-1	B922 Boiler CO	July 2016	July 2018
MSA-XE	12-1	B922 Generator Rm.CO	July 2016	July 2018
MSA-XE	14-1	B922 Chiller Rm. O2	July 2016	July 2018
MSA-XE	12-1	B925 Boiler CO	June 2017	June 2019

NETL PITTSBURGH TOXIC GAS ALARM SYSTEMS NOT REQUIRED/OUT-OF-SERVICE FACILITY SENSORS AND R&D SAFETY SENSORS				
ID Number	Part Number:	Location	Manufacturing Date:	NETL Expiration Date:
MSA-XE	14-1	B83 Rm.221 O2 (S)	March 2014	OUT-OF-SERVICE
MSA-XE	14-1	B83 Rm.221 O2 (N)	March 2014	OUT-OF-SERVICE
MSA-XE	21-1	B83 Rm.221 NO2 (S)	September 2014	OUT-OF-SERVICE
MSA-XE	12-1	B83 Rm.221 CO (S)	September 2014	OUT-OF-SERVICE
MSA-XE	21-1	B83 Rm.221 NO2 (SC)	September 2014	OUT-OF-SERVICE
MSA-XE	12-1	B83 Rm.221 CO (SC)	September 2014	OUT-OF-SERVICE
MSA-XE	21-1	B83 Rm.221 NO2 (NC)	September 2014	OUT-OF-SERVICE
MSA-XE	12-1	B83 Rm.221 CO (NC)	September 2014	OUT-OF-SERVICE
MSA-XE	21-1	B83 Rm.221 NO2 (N)	September 2014	OUT-OF-SERVICE
MSA-XE	12-1	B83 Rm.221 CO (N)	September 2014	OUT-OF-SERVICE
MSA-XE	31-1	B83 Rm.221 LEL (S)	November 2014	OUT-OF-SERVICE
MSA-XE	31-1	B83 Rm.221 LEL (SC)	November 2014	OUT-OF-SERVICE
MSA-XE	31-1	B83 Rm.221 LEL (NC)	November 2014	OUT-OF-SERVICE
MSA-XE	31-1	B83 Rm.221 LEL (N)	November 2014	OUT-OF-SERVICE
MSA-XE	21-1	B83 Rm.242 NO2 (Hood # 2)	July 2016	July 2018 (NOT REQUIRED, WO R0252617)
MSA-XE	31-1	B83 Rm.242 LEL (Hood # 2)	November 2014	November 2017 (NOT REQUIRED, WO R0252617)
MSA-XE	12-1	B83 Rm.242 CO (Hood # 3)	July 2016	July 2018 (NOT REQUIRED, WO R0252617)
MSA-XE	21-1	B83 Rm.242 NO2 (Hood # 3)	July 2016	July 2018 (NOT REQUIRED, WO R0252617)
MSA-XE	31-1	B83 Rm.242 LEL (Hood # 3)	November 2014	November 2017 (NOT REQUIRED, WO R0252617)
MSA-XE	21-1	B83 Rm.315 NO2 (SW)	March 2015	March 2017 (NOT REQUIRED, WO R0252617)
MSA-XE	21-1	B83 Rm.315 NO2 (NW)	March 2015	March 2017 (NOT REQUIRED, WO R0252617)
MSA-XE	21-1	B83 Rm.315 NO2 (NE)	March 2015	March 2017 (NOT REQUIRED, WO R0252617)
NETL PITTSBURGH TOXIC GAS ALARM SYSTEMS NOT REQUIRED/OUT-OF-SERVICE FACILITY SENSORS AND R&D SAFETY SENSORS				

CLIN 3 Activity 2 Attachment 4

ID Number	Part Number:	Location	Manufacturing Date:	NETL Expiration Date:
MSA-XE	21-1	B83 Rm.315 NO2 (E)	March 2015	March 2017 (NOT REQUIRED, WO R0252617)
MSA-XE	21-1	B83 Rm.332 NO2 (N)	March 2015	March 2017 (NOT REQUIRED, WO R0252617)
MSA-XE	21-1	B83 Rm.332 NO2 (S)	March 2015	March 2017 (NOT REQUIRED, WO R0252617)
MSA-XE	14-1	B83 Rm.339 CO (N)	March 2015	March 2017 (NOT REQUIRED, WO R0252617)
MSA-XE	21-1	B83 Rm.339 NO2 (N)	March 2015	March 2017 (NOT REQUIRED, WO R0252617)
MSA-XE	14-1	B83 Rm.339 CO (S)	October 2016	October 2018 (NOT REQUIRED, WO R0252617)
MSA-XE	21-1	B83 Rm.339 NO2 (S)	March 2015	March 2017 (NOT REQUIRED, WO R0252617)
MSA-XE	21-1	B83 Rm.340 NO2 (N)	March 2015	March 2017 (NOT REQUIRED, WO R0252617)
MSA-XE	21-1	B83 Rm.340 NO2 (S)	March 2015	March 2017 (NOT REQUIRED, WO R0252617)
MSA-XE	21-1	B83 Rm.341 NO2 (N)	March 2015	March 2017 (NOT REQUIRED, WO R0252617)
MSA-XE	21-1	B83 Rm.341 NO2 (S)	March 2015	March 2017 (NOT REQUIRED, WO R0252617)
MSA-XE	12-1	B84 Lab.#323 CO (N)	March 2016	March 2018 (NOT REQUIRED, WO R0252618)
MSA-XE	72-1	B84 Lab.#323 NO2 (N)	October 2016	October 2018 (NOT REQUIRED, WO R0252618)
MSA-XE	70-1	B84 Lab.#323 SO2 (N)	March 2016	March 2018 (NOT REQUIRED, WO R0252618)
MSA-XE	70-1	B84 Lab.#323 SO2 (S)	October 2016	October 2018 (NOT REQUIRED, WO R0252618)

CLIN 3 Activity 2 Attachment 4

NETL PITTSBURGH TOXIC GAS ALARM SYSTEMS NOT REQUIRED/OUT-OF-SERVICE FACILITY SENSORS AND R&D SAFETY SENSORS				
ID Number	Part Number:	Location	Manufacturing Date:	NETL Expiration Date:
MSA-XE	72-1	B84 Lab.#323 NO2 (S)	November 2014	November 2017 (NOT REQUIRED, WO R0252618)
MSA-XE	16-1	B94 Lab 404 H2S(W)	October 2016	October 2018 (NOT REQUIRED, WO R0252618)
MSA-XE	31-1	B141 Boiler Rm. LEL	July 2016	July 2019 (REMOVED)
MSA-XE	12-1	B141 Boiler Rm. CO	July 2016	July 2018 (REMOVED)

**NETL PITTSBURGH TOXIC GAS ALARM SYSTEMS
IN-SERVICE PROJECT SENSORS**

There are no project sensors currently at the NETL Pittsburgh, PA site.

CLIN 3 Activity 2 Attachment 4