



Low-Level Waste Plasma Gasification (NW PlasGas) Demonstration Project – Valve List

Doc. No.	ENS-NWPVR-LST-24002
Rev. No.	5

1	2					3	4	5	6	7	8 Note 2	9		10		11		12			13				14					15	QTY							
	Valve Tag No.											Valve Type	P&ID Number	Location (Line No. / Equipment No.)	Fluid	Fluid State	Shared (Y/N)	Design Conditions		Operating Conditions		SSC Safety Class		Actuator			Process Connection					Materials of Construction					Valve Certification	
	Fluid Code	System No.	Valve No.	Valve Code	Valve Size													Temp. [°C]	Press. [kPa(g)]	Temp. [°C]	Press. [kPa(g)]	Nuclear (N)	Chemical (C)	Tag No.	Failure Position [2]	Pneumatic / Solenoid	Size	Type	Flange Spec.			Flange Rating	Body	Trim	Packing / Seal	Plug / Ball / Disc		Bonnet / Cap
-	NH	12	007	SG	15	Globe valve	ENS-NWPVR-PID-24006	Line 15-13-NHVP-007	Nitrogen	Gas	N	38	24820	Ambient	400	Non-classified	SC-3	XV1204D	FO	Pneumatic	15	SW	SS, ASTM A182-F304/304L, ASME B16.5	1500#	SS (ASTM A182-F316/316L)	316 SS	CORROSION-INHIBITED, DIE FORMED FLEXIBLE GRAPHITE with ANTI-EXTRUSION RINGS	Disc, 316 SS	SS (ASTM A182-F316/316L)	-	1							
-	LW	12	008	CB	250	Ball valve	ENS-NWPVR-PID-24006	Line from Storage Hopper B1203 to Feed Hopper B1204	Shredded LLW feed material	Solid	N	38	1960	Ambient	-5	SC-3	SC-3	XV1203B	FC	Pneumatic	250	RF	CS, ASTM A105, ASME B16.5	150#	CS (ASTM A105/A216 WCB)	CS (ASTM A105/A216 WCB)	FLEXIBLE GRAPHITE	316 SS BALL	CS (ASTM A105/A216 WCB)	-	1							
-	AP	12	009	CG	15	Globe valve	ENS-NWPVR-PID-24006	Line 15-12-APCG-004	Air	Gas	N	38	1965	Amb	-5	SC-3	SC-3	XV1203C	FC	Pneumatic	15	RF	CS, ASTM A105, ASME B16.5	150#	CS (ASTM A216 WCB)	CS (ASTM A216 WCB)	CORROSION-INHIBITED, DIE FORMED FLEXIBLE GRAPHITE with ANTI-EXTRUSION RINGS	13 CR DISC	CS (ASTM A216 WCB)	-	1							
-	GA	14	050	SG	15	Globe valve	ENS-NWPVR-PID-24005	Line 15-13-GAVP-010	Argon	Gas	N	38	24820	Ambient	400	Non-classified	SC-3	XV1401A	FC	Pneumatic	15	SW	SS, ASTM A182-F304/304L, ASME B16.5	1500#	SS (ASTM A182-F316/316L)	316 SS	CORROSION-INHIBITED, DIE FORMED FLEXIBLE GRAPHITE with ANTI-EXTRUSION RINGS	Disc, 316 SS	SS (ASTM A182-F316/316L)	-	1							
-	NH	14	051	SG	15	Globe valve	ENS-NWPVR-PID-24005	Line 15-13-NHVP-008	Nitrogen	Gas	N	38	24820	Ambient	400	Non-classified	SC-3	XV1401B	FC	Pneumatic	15	SW	SS, ASTM A182-F304/304L, ASME B16.5	1500#	SS (ASTM A182-F316/316L)	316 SS	CORROSION-INHIBITED, DIE FORMED FLEXIBLE GRAPHITE with ANTI-EXTRUSION RINGS	Disc, 316 SS	SS (ASTM A182-F316/316L)	-	1							
-	GS	14	052	SG	15	Globe valve	ENS-NWPVR-PID-24005	Line 15-13-GSVP-012	Oxygen	Gas	N	38	24820	Ambient	400	Non-classified	SC-3	XV1403L	FC	Pneumatic	15	SW	SS, ASTM A182-F304/304L, ASME B16.11	1500#	SS (ASTM A182-F316/316L)	316 SS	CORROSION-INHIBITED, DIE FORMED FLEXIBLE GRAPHITE with ANTI-EXTRUSION RINGS	Disc, 316 SS	SS (ASTM A182-F316/316L)	ATEX Rated	1							
-	NH	14	053	SB	15	Ball valve	ENS-NWPVR-PID-24005	Line 15-13-NHVP-009	Nitrogen	Gas	N	38	24820	Ambient	400	Non-classified	SC-3	XV1404A	FO	Pneumatic	15	SW	SS, ASTM A182-F304/304L, ASME B16.5	1500#	SS (ASTM A182-F316/316L)	316 SS	CORROSION-INHIBITED, DIE FORMED FLEXIBLE GRAPHITE with ANTI-EXTRUSION RINGS	Disc, 316 SS	SS (ASTM A182-F316/316L)	-	1							

Notes
¹ Valve size to be determined and valve to be specified during design of HVAC system
² This valve is shared between the NW PlasGas and CWOPG Facilities, not as a result of integration of the two facilities, but rather as a result of one centralized instrument air supply system servicing all plasma gasification facilities in V-H2 Building. That system is incorporated into the NW PlaGas Facility.

Total	7
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