



June 1, 2017

Docket No.: 52-048

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
One White Flint North
11555 Rockville Pike
Rockville, MD 20852-2738

SUBJECT: NuScale Power, LLC Submittal of Changes to Final Safety Analysis Report, Tables 6.2-4 and 6.2-5

REFERENCE: Letter from NuScale Power LLC, to Nuclear Regulatory Commission, "NuScale Power, LLC Submittal of the NuScale Standard Plant Design Certification Application," dated December 31, 20167 (ML17013A29)

During an April 7, 2017, closed teleconference, with Mr. Omid Tabatabai and Clinton Ashley of the NRC staff, NuScale Power, LLC (NuScale) discussed potential updates to Final Safety Analysis Report (FSAR) Tables 6.2-4 and 6.2-5. As a result of this discussion, NuScale revised the referenced NuScale Design Certification Application. The Enclosure to this letter provides a mark-up of the FSAR pages incorporating revisions to Tables 6.2-4 and 6.2-5, in redline/strikeout format. NuScale will include this change as part of a future revision to the NuScale Design Certification Application.

This letter makes no regulatory commitments or revisions to any existing regulatory commitments.

Please feel free to contact Jennie Wike at 541-360-0539 or at jwike@nuscalepower.com if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read 'Zackary W. Rad', written over a horizontal line.

Zackary W. Rad
Director, Regulatory Affairs
NuScale Power, LLC

Distribution: Samuel Lee, NRC, TWFN-6C20
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Enclosure: "Changes to FSAR Tables 6.2-4 and 6.2-5"



LO-0517-54265

Enclosure:

“Changes to FSAR Tables 6.2-4 and 6.2-5”

Table 6.2-4: Containment Penetrations

Containment Penetration	System/Component	Nominal Size (Opening)	CIV Connection (Nozzle)	Location (elevation) Note 1	Valve Type/ Operator or Closure	Appendix J Type B/C Test	Process Fluid/ Gas	Closure Time	Isolation Signal	Valve Position Norm/ Shutdown	Valve Position Post-Accident/ Power Failure	Piping Penetration Regulatory Reference/ Compliance
CNV1	Feedwater Line 1	NPS 5	NPS 5	CNV Head	Ball/Hydraulic	TS, DHRS operability	Water	5-sec	2-sec	Open/Closed	Closed/Closed	Meets GDC 57
CNV2	Feedwater Line 2	NPS 5	NPS 5	CNV Head	Ball/Hydraulic	TS, DHRS operability	Water	5-sec	2-sec	Open/Closed	Closed/Closed	Meets GDC 57
CNV3	Main Steam Line 1	NPS 12	NPS 12	CNV Head	Ball/Hydraulic	TS, DHRS operability	Steam	5-sec	2-sec	Open/Closed	Closed/Closed	Meets intent of GDC 57 Exemption justified – Note 2
CNV4	Main Steam Line 2	NPS 12	NPS 12	CNV Head	Ball/Hydraulic	TS, DHRS operability	Steam	5-sec	2-sec	Open/Closed	Closed/Closed	Meets intent of GDC 57 Exemption justified – Note 2
CNV5	CRDS Return	NPS 2	NPS 4	CNV Head	Ball/Hydraulic	C	Water	5-sec	2-sec	Open/Closed	Closed/Closed	Meets the intent of GDC 56 Exemption justified – Note 3
CNV6	CVCS Makeup	NPS 2	NPS 4	CNV Head	Ball/Hydraulic	C	Borated Water	5-sec	2-sec	Open/Closed	Closed/Closed	Meets the intent of GDC 55 Exemption justified – Note 3
CNV7	CVCS Pressurizer Spray	NPS 2	NPS 4	CNV Head	Ball/Hydraulic	C	Borated Water	5-sec	2-sec	Open/Closed	Closed/Closed	Meets the intent of GDC 55 Exemption justified – Note 3
CNV8	I&C Division 1	NPS 3	N/A	CNV Head	Flange	B	N/A	N/A	N/A	N/A	N/A	N/A
CNV9	I&C Division 2	NPS 3	N/A	CNV Head	Flange	B	N/A	N/A	N/A	N/A	N/A	N/A
CNV10	Containment Evacuation System	NPS 2	NPS 4	CNV Head	Ball/Hydraulic	C	Non-condensables, Gas, Vapor	5-sec	2-sec	Open/Closed	Closed/Closed	Meets the intent of GDC 56 Exemption justified – Note 3
CNV11	Containment Flood and Drain System	NPS 2	NPS 4	CNV Head	Ball/Hydraulic	C	Borated Water	5-sec	2-sec	Closed/Closed	Closed/Closed	Meets the intent of GDC 56 Exemption justified – Note 3
CNV12	CRDS Supply	NPS 2	NPS 4	CNV Head	Ball/Hydraulic	C	Water	5-sec	2-sec	Open/Closed	Closed/Closed	Meets the intent of GDC 56 Exemption justified – Note 3
CNV13	CVCS Letdown	NPS 2	NPS 4	CNV Head	Ball/Hydraulic	C	Borated Water	5-sec	2-sec	Open/Closed	Closed/Closed	Meets the intent of GDC 55 Exemption justified – Note 3
CNV14	RPV High Point Degasification	NPS 2	NPS 4	CNV Head	Ball/Hydraulic	C	Non-condensables, Gas, Vapor	5-sec	2-sec	Closed/Closed	Closed/Closed	Meets the intent of GDC 55 Exemption justified – Note 3
CNV15	Pressurizer Heater Power (Elect-1)	NPS 12	N/A	CNV Head	Flange	B	N/A	N/A	N/A	N/A	N/A	N/A
CNV16	Pressurizer Heater Power (Elect-2)	NPS 12	N/A	CNV Head	Flange	B	N/A	N/A	N/A	N/A	N/A	N/A
CNV17	I&C Channel A	NPS 8	N/A	CNV Head	Flange	B	N/A	N/A	N/A	N/A	N/A	N/A
CNV18	I&C Channel B	NPS 8	N/A	CNV Head	Flange	B	N/A	N/A	N/A	N/A	N/A	N/A
CNV19	I&C Channel C	NPS 8	N/A	CNV Head	Flange	B	N/A	N/A	N/A	N/A	N/A	N/A
CNV20	I&C Channel D	NPS 8	N/A	CNV Head	Flange	B	N/A	N/A	N/A	N/A	N/A	N/A
CNV21	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CNV22	Decay Heat Removal 1	NPS 2		377"	Closed piping – Note 2	N/A	Borated Water	N/A	N/A	N/A	N/A	Meets the intent of GDC 57 Exemption justified – Note 2
CNV23	Decay Heat Removal 2	NPS 2		377"	Closed piping – Note 2	N/A	Borated Water	N/A	N/A	N/A	N/A	Meets the intent of GDC 57 Exemption justified – Note 2

Notes:
 1 Containment isolation valves are located outside of the containment vessel. Elevations are approximate as measured from global zero to top of safe end or nozzle cover.
 2 Exemption allows the use of a closed piping system (DHRS) outside of the containment vessel rather than providing an isolation valve.
 3 Exemption allows placement of both containment isolation valves outside of the containment boundary.
 4 Borated water flows to and from each pilot valve remain within the containment boundary.

Table 6.2-4: Containment Penetrations

Containment Penetration	Description	Nominal Size (Opening)	CIV Connection (Nozzle)	Length of Containment Pipe (ft)	System Quality Group	Appendix J Type B/C Test	Process Fluid/ Gas	Process System Inside Containment	Process System Outside Containment	Piping Penetration Regulatory Reference/ Compliance	ESF System Yes/No
CNV1	Feedwater Line 1	NPS 5	NPS 5	Note 1	B	TS, DHRS operability	Water	SGS Feed	Feedwater 1	Meets GDC 57	No
CNV2	Feedwater Line 2	NPS 5	NPS 5	Note 1	B	TS, DHRS operability	Water	SGS Feed	Feedwater 2	Meets GDC 57	No
CNV3	Main Steam Line 1	NPS 12	NPS 12	4	B	TS, DHRS operability	Steam	SGS Steam 1	Main Steam 1	Meets intent of GDC57 Exemption justified - Note 2	No
CNV4	Main Steam Line 2	NPS 12	NPS 12	4	B	TS, DHRS operability	Steam	SGS Steam 2	Main Steam 2	Meets intent of GDC57 Exemption justified - Note 2	No
CNV5	CRDS Return	NPS 2	NPS 4	Note 1	B	C	Water	CRDS Return	RCCW	Meets the intent of GDC 56 Exemption justified - Note 3	No
CNV6	RCS Injection	NPS 2	NPS 4	Note 1	B	C	Borated Water	RCS Injection	CVCS Makeup	Meets the intent of GDC 55 Exemption justified - Note 3	No
CNV7	RCS Pressurizer Spray	NPS 2	NPS 4	Note 1	A	C	Borated Water	RCS Pressurizer Spray	CVCS Pressurizer Spray	Meets the intent of GDC 55 Exemption justified - Note 3	No
CNV8	I&C Division 1	NPS 3	N/A	N/A	N/A	B	N/A	N/A	N/A	N/A	No
CNV9	I&C Division 2	NPS 3	N/A	N/A	N/A	B	N/A	N/A	N/A	N/A	No
CNV10	Containment Evacuation System	NPS 2	NPS 4	Note 1	B	C	Non-condensables, Gas, Vapor	Containment Evacuation System	Containment Evacuation System	Meets the intent of GDC 56 Exemption justified - Note 3	No
CNV11	Containment Flood and Drain System	NPS 2	NPS 4	Note 1	B	C	Borated Water	Containment Flood and Drain System	Containment Flood and Drain System	Meets the intent of GDC 56 Exemption justified - Note 3	No
CNV12	CRDS Supply	NPS 2	NPS 4	Note 1	B	C	Water	CRDS Supply	RCCW	Meets the intent of GDC 56 Exemption justified - Note 3	No
CNV13	RPV Discharge	NPS 2	NPS 4	Note 1	A	C	Borated Water	RPV Discharge	CVCS Letdown	Meets the intent of GDC 55 Exemption justified - Note 3	No
CNV14	RPV High Point Degasification	NPS 2	NPS 4	Note 1	A	C	Non-condensables, Gas, Vapor	RPV High Point Degasification	Pressurizer High Point Degasification	Meets the intent of GDC 55 Exemption justified - Note 3	No
CNV15	Pressurizer Heater Power (Elect-1)	NPS 12	N/A	N/A	N/A	B	N/A	N/A	N/A	N/A	No
CNV16	Pressurizer Heater Power (Elect-2)	NPS 12	N/A	N/A	N/A	B	N/A	N/A	N/A	N/A	No
CNV17	I&C Channel A	NPS 8	N/A	N/A	N/A	B	N/A	N/A	N/A	N/A	No
CNV18	I&C Channel B	NPS 8	N/A	N/A	N/A	B	N/A	N/A	N/A	N/A	No
CNV19	I&C Channel C	NPS 8	N/A	N/A	N/A	B	N/A	N/A	N/A	N/A	No
CNV20	I&C Channel D	NPS 8	N/A	N/A	N/A	B	N/A	N/A	N/A	N/A	No
CNV21	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CNV22	Decay Heat Removal 1	NPS 2	N/A	N/A	B	N/A	Water	SGS Steam 1	Decay Heat Removal 1	Meets the intent of GDC 57 Exemption justified - Note 2	Yes
CNV23	Decay Heat Removal 2	NPS 2	N/A	N/A	B	N/A	Water	SGS Steam 2	Decay Heat Removal 2	Meets the intent of GDC 57 Exemption justified - Note 2	Yes
CNV24	Head Manway	NPS 18	N/A	N/A	N/A	B	N/A	N/A	N/A	N/A	No
CNV25	CRDM Access Opening	67 inch	N/A	N/A	N/A	B	N/A	N/A	N/A	N/A	No
CNV26	Manway	38 inch	N/A	N/A	N/A	B	N/A	N/A	N/A	N/A	No
CNV27	SG Inspection Port 1	38 inch	N/A	N/A	N/A	B	N/A	N/A	N/A	N/A	No
CNV28	SG Inspection Port 2	38 inch	N/A	N/A	N/A	B	N/A	N/A	N/A	N/A	No
CNV29	SG Inspection Port 3	38 inch	N/A	N/A	N/A	B	N/A	N/A	N/A	N/A	No
CNV30	SG Inspection Port 4	38 inch	N/A	N/A	N/A	B	N/A	N/A	N/A	N/A	No
CNV31	Pressurizer Heater Access Port 1	44 inch	N/A	N/A	N/A	B	N/A	N/A	N/A	N/A	No
CNV32	Pressurizer Heater Access Port 2	44 inch	N/A	N/A	N/A	B	N/A	N/A	N/A	N/A	No
CNV33	RVV Trip/Reset 0102A/0103A	NPS 3	NPS 3	Note 1	B	B	Borated Water - Note 4	ECCS	ECCS	N/A	Yes
CNV34	RVV Trip/Reset 0102B/0103B	NPS 3	NPS 3	Note 1	B	B	Borated Water - Note 4	ECCS	ECCS	N/A	Yes

Table 6.2-4: Containment Penetrations (Continued)

Containment Penetration	Description	Nominal Size (Opening)	CIV Connection (Nozzle)	Length of Containment Pipe (ft)	System Quality Group	Appendix J Type B/C Test	Process Fluid/ Gas	Process System Inside Containment	Process System Outside Containment	Piping Penetration Regulatory Reference/ Compliance	ESF System Yes/No
CNV35	RRV Trip/Reset 0105A/0106A	NPS 3	NPS 3	Note 1	B	B	Borated Water - Note 4	ECCS	ECCS	N/A	Yes
CNV36	RRV Trip/Reset 0105B/0106B	NPS 3	NPS 3	Note 1	B	B	Borated Water - Note 4	ECCS	ECCS	N/A	Yes
CNV37	CRDM Power	NPS 18	N/A	N/A	N/A	B	N/A	N/A	N/A	N/A	No
CNV38	RPI Group 1	NPS 10	N/A	N/A	N/A	B	N/A	N/A	N/A	N/A	No
CNV39	RPI Group 2	NPS 10	N/A	N/A	N/A	B	N/A	N/A	N/A	N/A	No
CNV40	RVV Trip/Reset 0102C/0103C	NPS 3	NPS 3	Note 1	B	B	Borated Water - Note 4	ECCS	ECCS	N/A	Yes
CNV41	RVV Trip 0107	NPS 3	NPS 3	Note 1	B	B	Borated Water - Note 4	ECCS	ECCS	N/A	Yes
-	Main CNV Flange	170 inch	N/A	N/A	N/A	B	N/A	N/A	N/A	N/A	No

Notes:

- 1.The listed component is welded directly to the nozzle safe end which is part of the containment vessel.
- 2.Exemption allows the use of a closed piping system (DHRS) outside of the containment vessel rather than providing an isolation valve.
- 3.Exemption allows placement of both containment isolation valves outside of the containment boundary.
- 4.Borated water flows to and from each pilot valve and remains within the containment boundary.
- 5.The NuScale design does not include a dual containment arrangement or sealing systems.

Table 6.2-5: Containment Isolation Valve Design Information

Containment Isolation Valve	Process System Inside of Containment	Process System Outside of Containment	Penetration	Valve Type	Seismic Category	Quality Group (Valve/ Actuator)	ASME Design Code	Pressure Class	OM Category	Design Pressure	Design Temperature
CVC-ISV-0334	RCS Injection	CVCS Makeup	CNV6	Ball/PSCIV	†	A/B	Section III, NB-2000	ANSI-B16.34	A	2100 psia	650°F
CVC-ISV-0329	RCS Injection	CVCS Makeup	CNV6	Ball/PSCIV	†	A/B	Section III, NB-2000	ANSI-B16.34	A	2100 psia	650°F
CVC-ISV-0325	RCS Pressurizer Spray	CVCS Pressurizer Spray	CNV7	Ball/PSCIV	†	A/B	Section III, NB-2000	ANSI-B16.34	A	2100 psia	650°F
CVC-ISV-0323	RCS Pressurizer Spray	CVCS Pressurizer Spray	CNV7	Ball/PSCIV	†	A/B	Section III, NB-2000	ANSI-B16.34	A	2100 psia	650°F
CVC-ISV-0336	RCS Discharge	CVCS Letdown	CNV13	Ball/PSCIV	†	A/B	Section III, NB-2000	ANSI-B16.34	A	2100 psia	650°F
CVC-ISV-0334	RCS Discharge	CVCS Letdown	CNV13	Ball/PSCIV	†	A/B	Section III, NB-2000	ANSI-B16.34	A	2100 psia	650°F
CVCS-ISV-0403	RCS High Point Degasification	Pressurizer High Point Degasification	CNV14	Ball/PSCIV	†	A/B	Section III, NB-2000	ANSI-B16.34	A	2100 psia	650°F
CVCS-ISV-0401	RCS High Point Degasification	Pressurizer High Point Degasification	CNV14	Ball/PSCIV	†	A/B	Section III, NB-2000	ANSI-B16.34	A	2100 psia	650°F
CE-ISV-0101	Containment Evacuation System	Containment Evacuation System	CNV10	Ball/PSCIV	†	B/B	Section III, NB-2000	ANSI-B16.34	A	2100 psia	650°F
CE-ISV-0102	Containment Evacuation System	Containment Evacuation System	CNV10	Ball/PSCIV	†	B/B	Section III, NB-2000	ANSI-B16.34	A	2100 psia	650°F
CFD-ISV-0130	Containment Flood and Drain System	Containment Flood and Drain System	CNV11	Ball/PSCIV	†	B/B	Section III, NB-2000	ANSI-B16.34	A	2100 psia	650°F
CFD-ISV-0129	Containment Flood and Drain System	Containment Flood and Drain System	CNV11	Ball/PSCIV	†	B/B	Section III, NB-2000	ANSI-B16.34	A	2100 psia	650°F
RCCW-ISV-0185	CRDS Supply	CRDS Supply	CNV12	Ball/PSCIV	†	B/B	Section III, NB-2000	ANSI-B16.34	A	2100 psia	650°F
RCCW-ISV-0184	CRDS Supply	CRDS Supply	CNV12	Ball/PSCIV	†	B/B	Section III, NB-2000	ANSI-B16.34	A	2100 psia	650°F
RCCW-ISV-0190	CRDS Return	CRDS Return	CNV5	Ball/PSCIV	†	B/B	Section III, NB-2000	ANSI-B16.34	A	2100 psia	650°F
RCCW-ISV-0191	CRDS Return	CRDS Return	CNV5	Ball/PSCIV	†	B/B	Section III, NB-2000	ANSI-B16.34	A	2100 psia	650°F
FW-ISV-1003	SGS Feed	Feedwater-1	CNV1	Ball/SSCIV	†	B/B	Section III, NC-2000	ANSI-B16.34	A	2100 psia	650°F
FW-ISV-2003	SGS Feed	Feedwater-2	CNV2	Ball/SSCIV	†	B/B	Section III, NC-2000	ANSI-B16.34	A	2100 psia	650°F
ISV-1005	SGS Steam-1	Main Steam-1	CNV3	Ball/SSCIV	†	B/B	Section III, NC-2000	ANSI-B16.34	A	2100 psia	650°F
ISV-1006	SGS Steam-1	Main Steam-1 Bypass	CNV3	Ball/SSCIV	†	B/B	Section III, NC-2000	ANSI-B16.34	A	2100 psia	650°F
ISV-2005	SGS Steam-2	Main Steam-2	CNV4	Ball/SSCIV	†	B/B	Section III, NC-2000	ANSI-B16.34	A	2100 psia	650°F
ISV-2006	SGS Steam-2	Main Steam-2 Bypass	CNV4	Ball/SSCIV	†	B/B	Section III, NC-2000	ANSI-B16.34	A	2100 psia	650°F

PSCIV – primary system containment isolation valve – see Figure 6.2-5

SSCIV – secondary system containment isolation valve – see Figure 6.2-6a and Figure 6.2-6b

Table 6.2-5: Containment Isolation Valve Information

Containment Isolation Valve	Valve Location Inside/Outside Containment	Penetration	Valve Type/Operator	Primary Actuation Mode	Secondary Actuation Mode	Valve Position Norm/ Shutdown	Valve Position Post-Accident/ Power Failure	Power Failure Position Motive/Control	Containment Isolation Signal Note 5	Closure Time (Sec) Note 2	Power Source
CNT-CVC-ISV-0331	Outside Note 1	CNV6	Ball/ Hydraulic	Auto	Remote Manual	Open/Closed	Closed/Closed	Open/Closed	CSI	≤7	Hydraulically Operated
CNT-CVC-ISV-0329	Outside Note 1	CNV6	Ball/ Hydraulic	Auto	Remote Manual	Open/Closed	Closed/Closed	Open/Closed	CSI	≤7	Hydraulically Operated
CNT-CVC-ISV-0325	Outside Note 1	CNV7	Ball/ Hydraulic	Auto	Remote Manual	Open/Closed	Closed/Closed	Open/Closed	CSI	≤7	Hydraulically Operated
CNT-CVC-ISV-0323	Outside Note 1	CNV7	Ball/ Hydraulic	Auto	Remote Manual	Open/Closed	Closed/Closed	Open/Closed	CSI	≤7	Hydraulically Operated
CNT-CVC-ISV-0336	Outside Note 1	CNV13	Ball/ Hydraulic	Auto	Remote Manual	Open/Closed	Closed/Closed	Open/Closed	CSI	≤7	Hydraulically Operated
CNT-CVC-ISV-0334	Outside Note 1	CNV13	Ball/ Hydraulic	Auto	Remote Manual	Open/Closed	Closed/Closed	Open/Closed	CSI	≤7	Hydraulically Operated
CNT-CVCS-ISV-0403	Outside Note 1	CNV14	Ball/ Hydraulic	Auto	Remote Manual	Closed/Closed	Closed/Closed	Open/Closed	CSI	≤7	Hydraulically Operated
CNT-CVCS-ISV-0401	Outside Note 1	CNV14	Ball/ Hydraulic	Auto	Remote Manual	Closed/Closed	Closed/Closed	Open/Closed	CSI	≤7	Hydraulically Operated
CNT-CE-ISV-0101	Outside Note 1	CNV10	Ball/ Hydraulic	Auto	Remote Manual	Open/Closed	Closed/Closed	Open/Closed	CSI	≤7	Hydraulically Operated
CNT-CE-ISV-0102	Outside Note 1	CNV10	Ball/ Hydraulic	Auto	Remote Manual	Open/Closed	Closed/Closed	Open/Closed	CSI	≤7	Hydraulically Operated
CNT-CFD-ISV-0130	Outside Note 1	CNV11	Ball/ Hydraulic	Auto	Remote Manual	Closed/Closed	Closed/Closed	Open/Closed	CSI	≤7	Hydraulically Operated
CNT-CFD-ISV-0129	Outside Note 1	CNV11	Ball/ Hydraulic	Auto	Remote Manual	Closed/Closed	Closed/Closed	Open/Closed	CSI	≤7	Hydraulically Operated
CNT-RCCW-ISV-0185	Outside Note 1	CNV12	Ball/ Hydraulic	Auto	Remote Manual	Open/Closed	Closed/Closed	Open/Closed	CSI	≤7	Hydraulically Operated
CNT-RCCW-ISV-0184	Outside Note 1	CNV12	Ball/ Hydraulic	Auto	Remote Manual	Open/Closed	Closed/Closed	Open/Closed	CSI	≤7	Hydraulically Operated
CNT-RCCW-ISV-0190	Outside Note 1	CNV5	Ball/ Hydraulic	Auto	Remote Manual	Open/Closed	Closed/Closed	Open/Closed	CSI	≤7	Hydraulically Operated
CNT-RCCW-ISV-0191	Outside Note 1	CNV5	Ball/ Hydraulic	Auto	Remote Manual	Open/Closed	Closed/Closed	Open/Closed	CSI	≤7	Hydraulically Operated
CNT-FW-ISV-1003	Outside	CNV1	Ball/ Hydraulic	Auto	Remote Manual	Open/Closed	Closed/Closed	Open/Closed	CSI	≤7	Hydraulically Operated
CNT-FW-ISV-2003	Outside	CNV2	Ball/ Hydraulic	Auto	Remote Manual	Open/Closed	Closed/Closed	Open/Closed	CSI	≤7	Hydraulically Operated
CNT-MS-ISV-1005	Outside	CNV3	Ball/ Hydraulic	Auto	Remote Manual	Open/Closed	Closed/Closed	Open/Closed	CSI	≤7	Hydraulically Operated
CNT-MS-ISV-1006	Outside	CNV3	Ball/ Hydraulic	Remote Manual	None	Closed/Closed	Closed/Closed	Open/Closed	CSI	N/A Note 4	Hydraulically Operated
CNT-MS-ISV-2005	Outside	CNV4	Ball/ Hydraulic	Auto	Remote Manual	Open/Closed	Closed/Closed	Open/Closed	CSI	≤7	Hydraulically Operated
CNT-MS-ISV-2006	Outside	CNV4	Ball/ Hydraulic	Remote Manual	None	Closed/Closed	Closed/Closed	Open/Closed	CSI	N/A Note 4	Hydraulically Operated

- Notes:
1. Exemption as discussed by Section 6.2.4.1 allows placement of both containment isolation valves outside of the containment boundary.
 2. The closure time is the total required isolation time from receipt of a closure signal generated by the MPS to the time when the valve is fully closed. Isolation signal delays are listed by Table 7.1-6.
 3. The containment isolation valve arrangement is depicted by Figure 6.2-5.
 4. CNTS main steam line #1 and #2 bypass valves receive a containment isolation signal. The bypass valves have no CIV closure time requirement because they are passive valves that are normally closed, fail closed, and only open for short durations for plant startups.
 5. Table 7.1-4 identifies the parameters monitored by the MPS to generate a containment system isolation (CSI) signal.