

RAS 11224

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 Docket No. 70-3103-ML

Table 2 – Relationship Between Passive Safe-By-Design Components and Parameter Safe Values/Nuclear Criticality Safety (NCS) Supporting Analyses	
Systems Containing Passive Safe-By-Design Components/ Reference	Safe-By-Design Component Parameter / Reference
Product System / ISA Summary Table 3.7-7	<p>Diameter / SAR Table 5.1-1</p> <p>Physical Arrangement / Safe by explicit calculation</p> <ul style="list-style-type: none"> <li>Analyses described in ISA Summary Sections 3.4.3.8.2, 3.4.4.8.2, 3.4.4.8.3, 3.4.4.8.4, and NCS Supporting Analyses.</li> </ul> <p>Volume / SAR Table 5.1-1</p>
Tails System / ISA Summary Table 3.7-8	<p>Diameter / SAR Table 5.1-1</p> <p>Physical Arrangement / Safe by explicit calculation</p> <ul style="list-style-type: none"> <li>NCS Supporting Analyses to be performed for Tails Piping, Tails Vacuum, Pump/Chemical Trap Set, Pump Transport Device, Chemical Trap Transport Device and Mobile UF<sub>6</sub> Rig Physical Arrangements to demonstrate criticality safety during final design.</li> </ul> <p>Volume / SAR Table 5.1-1</p>
Product Blending System / ISA Summary Table 3.7-9	<p>Diameter / SAR Table 5.1-1</p> <p>Physical Arrangement / Safe by explicit calculation</p> <ul style="list-style-type: none"> <li>Analyses described in ISA Summary Sections 3.4.3.8.2, 3.4.4.8.3, 3.4.4.8.4, 3.4.6.8.3 and NCS Supporting Analyses.</li> </ul> <p>Volume / SAR Table 5.1-1</p>
Product Liquid Sampling System / ISA Summary Table 3.7-10	<p>Diameter / SAR Table 5.1-1</p> <p>Physical Arrangement / Safe by explicit calculation</p> <ul style="list-style-type: none"> <li>Analyses described in ISA Summary Section 3.4.3.8.2 and NCS Supporting Analyses.</li> </ul>

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<b>Systems Containing Passive Safe-By-Design Components/ Reference</b>	<b>Safe-By-Design Component Parameter / Reference</b>
Liquid Effluent Collection & Treatment System / ISA Summary Table 3.7-14	<p>Diameter / SAR Table 5.1-1</p> <p>Physical Arrangement / Safe by explicit calculation</p> <ul style="list-style-type: none"> <li>▪ Analysis described in NCS Supporting Analyses.</li> <li>▪ NCS Supporting Analyses to be performed for Degreaser Water Piping and Spent Citric Acid Piping Physical Arrangements to demonstrate criticality safety during final design.</li> </ul> <p>Volume / SAR Table 5.1-1</p> <p>Slab / SAR Table 5.1-1</p>
Solid Waste System / ISA Summary Table 3.7-15	<p>Physical Arrangement / Safe by explicit calculation</p> <ul style="list-style-type: none"> <li>▪ Analysis described in ISA Summary Section 3.5.13.2.4.</li> </ul> <p>Volume / SAR Table 5.1-1</p>
Decontamination Workshop / ISA Summary Table 3.7-16	<p>Diameter / SAR Table 5.1-1</p> <p>Physical Arrangement / Safe by explicit calculation</p> <ul style="list-style-type: none"> <li>▪ Analyses described in ISA Summary Sections 3.4.4.8.4, 3.5.14.5 NCS Supporting Analyses.</li> </ul> <p>Volume / SAR Table 5.1-1</p> <p>Slab / SAR Table 5.1-1</p>
Fomblin Oil Recovery System / ISA Summary Table 3.7-17	<p>Physical Arrangement / Safe by explicit calculation</p> <ul style="list-style-type: none"> <li>▪ Analysis described in ISA Summary Section 3.5.15.5.</li> </ul> <p>Slab / SAR Table 5.1-1</p>

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<b>Systems Containing Passive Safe-By-Design Components/ Reference</b>	<b>Safe-By-Design Component Parameter / Reference</b>
Ventilated Room System / ISA Summary Table 3.7-18	<p>Diameter / SAR Table 5.1-1</p> <p>Physical Arrangement / Safe by explicit calculation</p> <ul style="list-style-type: none"> <li>Analyses described in ISA Summary Sections 3.4.4.8.3, 3.4.4.8.4, 3.5.13.2.4, 3.5.17.4.</li> <li>NCS Supporting Analyses to be performed for Cylinder Pressure Test and Pump Out Piping, Dump Trap Storage Array, Dump Trap Internals, and 12L Canister Transport Device Physical Arrangements to demonstrate criticality safety during final design.</li> </ul> <p>Volume / SAR Table 5.1-1</p>
Chemical Laboratory / ISA Summary Table 3.7-19	<p>Diameter / SAR Table 5.1-1</p> <p>Physical Arrangement / Safe by explicit calculation</p> <ul style="list-style-type: none"> <li>Analysis described in ISA Summary Section 3.5.18.4.</li> </ul> <p>Volume / SAR Table 5.1-1</p>
Mass Spectrometry / ISA Summary Table 3.7-20	<p>Diameter / SAR Table 5.1-1</p> <p>Volume / SAR Table 5.1-1</p>
Cylinder Preparation System / ISA Summary Table 3.7-21	<p>Diameter / SAR Table 5.1-1</p> <p>Physical Arrangement / Safe by explicit calculation</p> <ul style="list-style-type: none"> <li>Analyses described in ISA Summary Sections 3.4.4.8.3, 3.4.4.8.4.</li> <li>NCS Supporting Analysis to be performed for Cylinder Preparation Test and Pump Out Piping Physical Arrangement to demonstrate criticality safety during final design.</li> </ul> <p>Volume / SAR Table 5.1-1</p>

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<b>Systems Containing Passive Safe-By-Design Components/ Reference</b>	<b>Safe-By-Design Component Parameter / Reference</b>
Cascade System / ISA Summary Table 3.7-6	Details are classified.
Contingency Dump System / ISA Summary Table 3.7-11	Details are classified.
Centrifuge Test System / ISA Summary Table 3.7-12	Details are classified.
Centrifuge Post Mortem / ISA Summary Table 3.7-13	Details are classified.