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8B REPRESENTATIVE SEQUENCE RESULTS

The representative sequences analyzed during the containment analysis are shown in this appendix. Both a Technical Specifications Leakage (TSL) case and a Filtered Release (FR) are shown for Class I, Class III, and Class IV severe accident scenarios. Accident classes are defined in Section 7.2.2. A Class II scenario, in which containment failure precedes core damage, is also included. No Class V cases were analyzed because, by definition, containment function is directly bypassed due to an unisolated break outside containment (BOC).

8B.1 – Class I Representative Sequence (T_nIN_TSL)

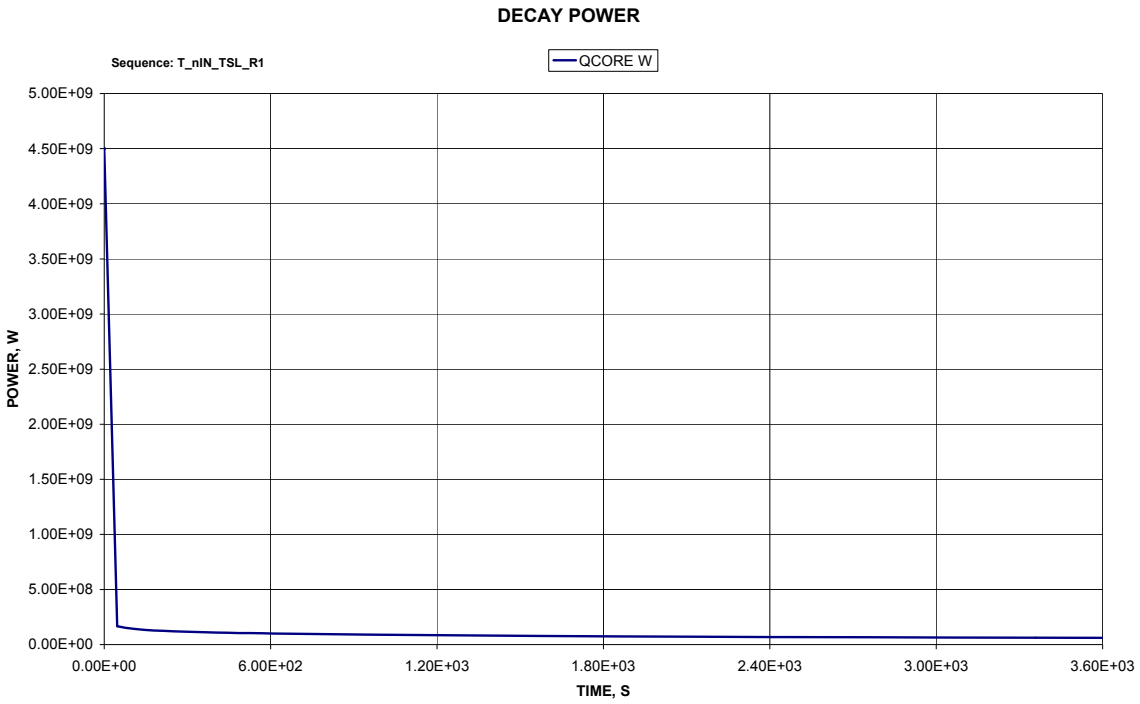

Figure 8B-1a. CDI TSL Core Power

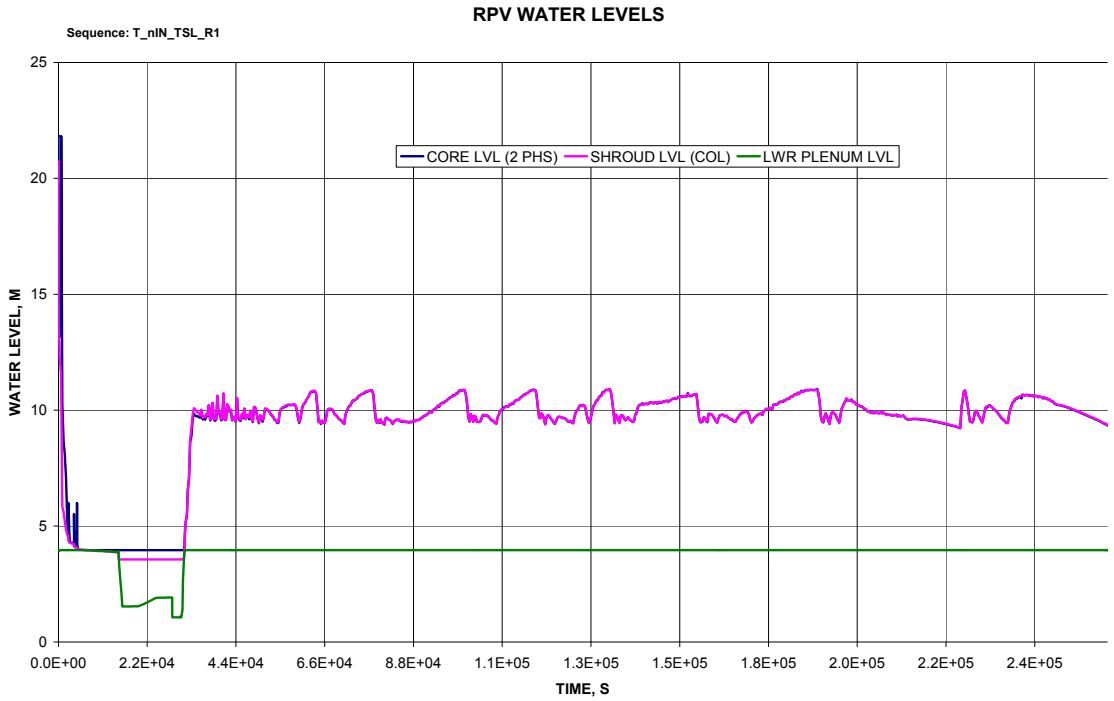

Figure 8B-1b. CDI TSL RPV Water Levels

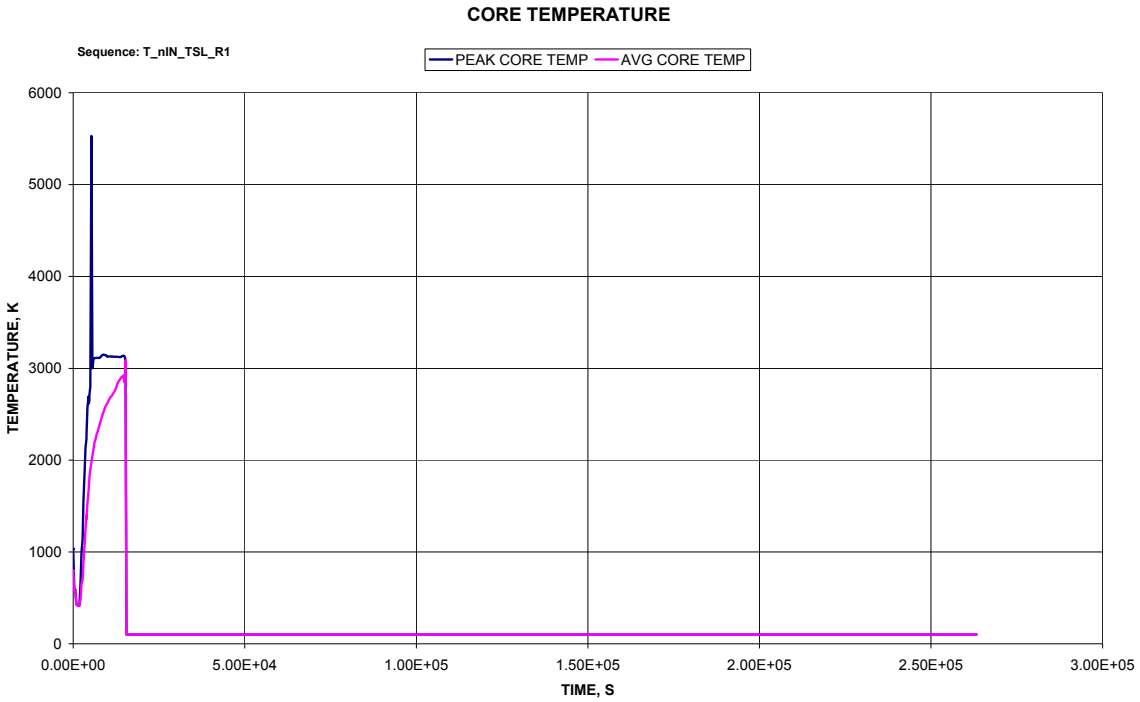

Figure 8B-1c. CDI TSL Core Temperature

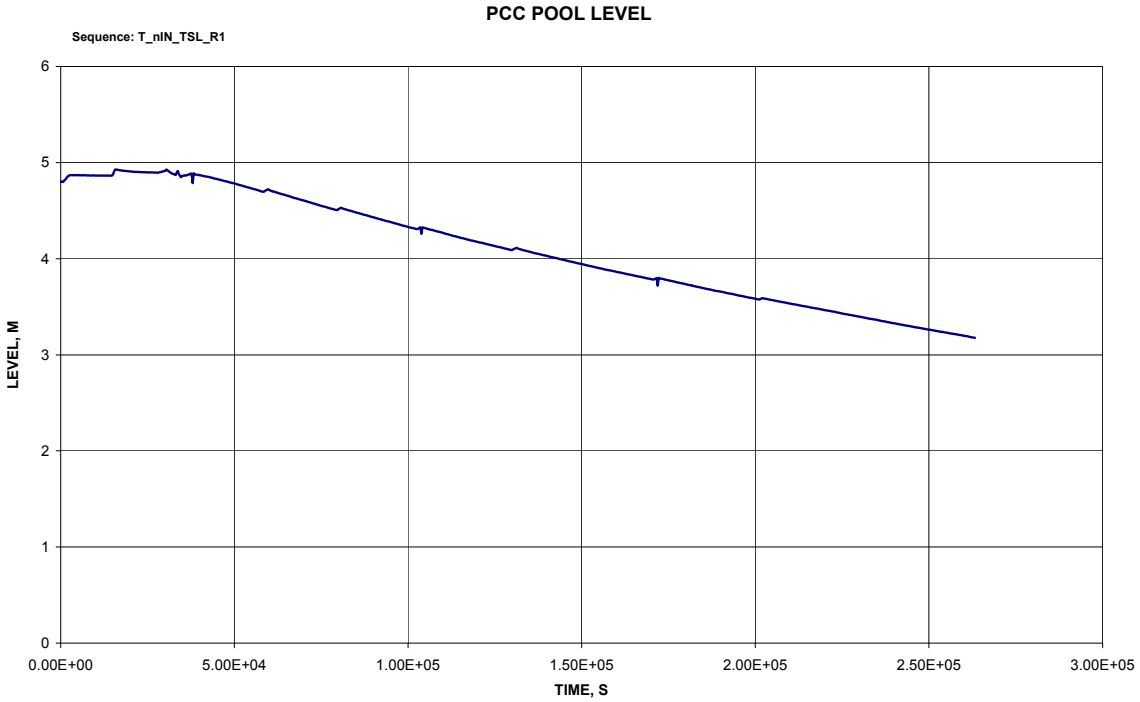

Figure 8B-1d. CDI TSL PCCS Pool Level

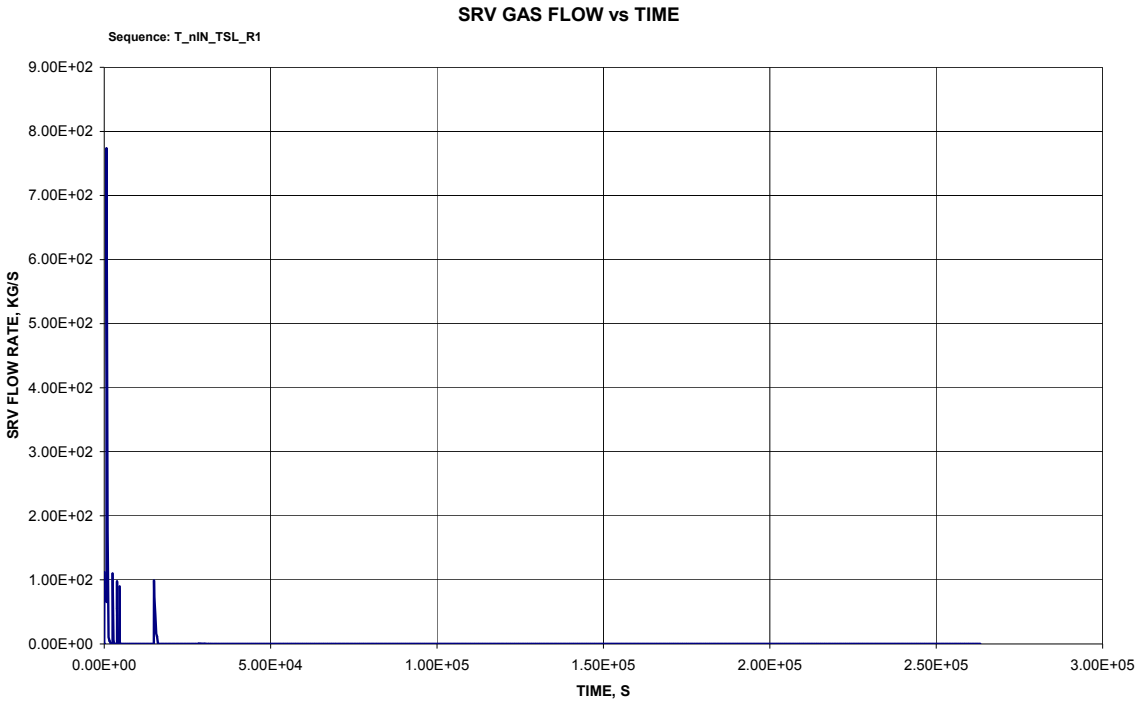

Figure 8B-1e. CDI TSL SRV Gas Flow vs Time

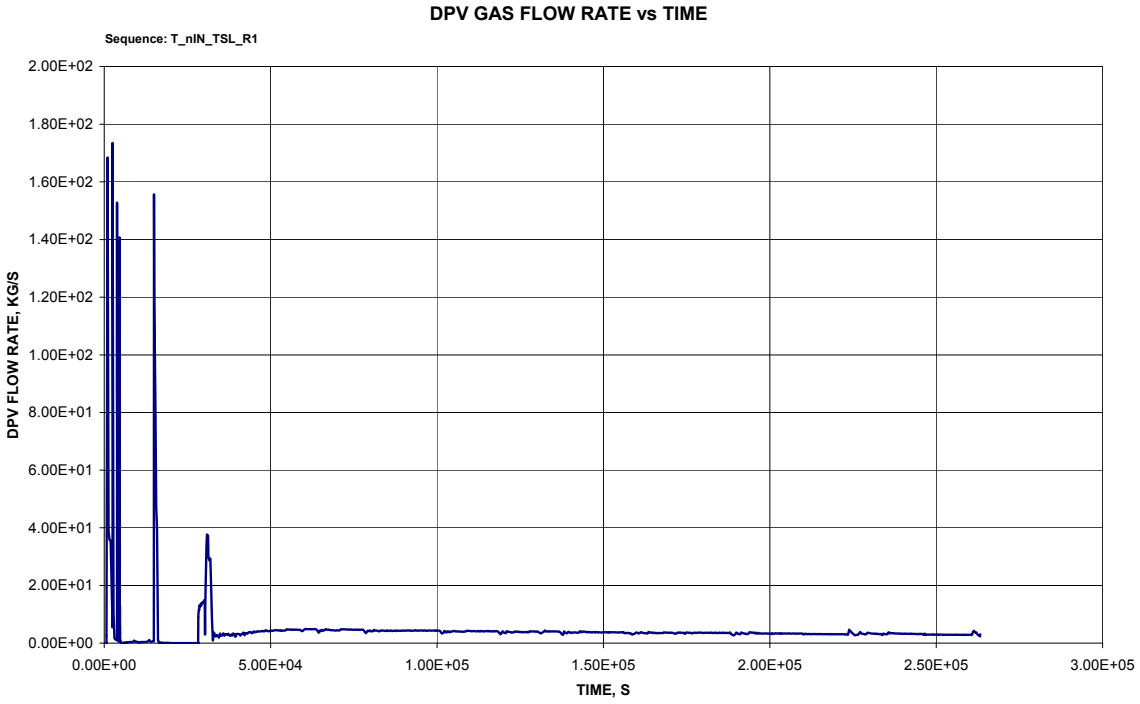

Figure 8B-1f. CDI TSL DPV Gas Flow vs Time

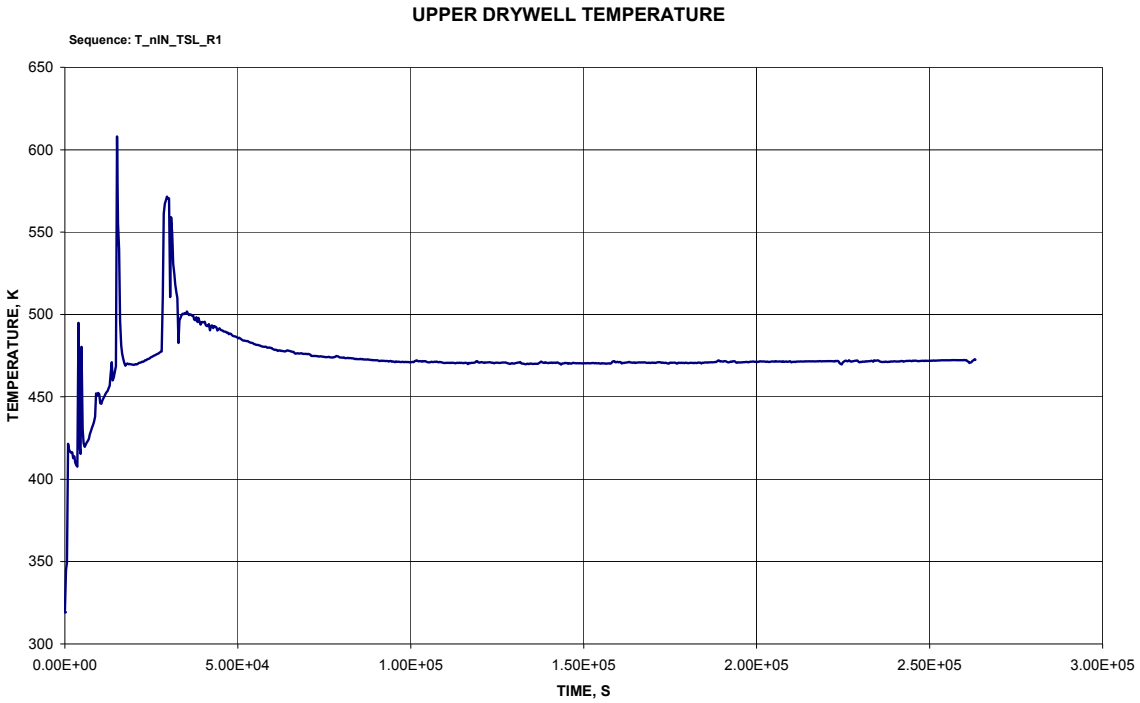

Figure 8B-1g. CDI TSL Drywell Gas Temperature

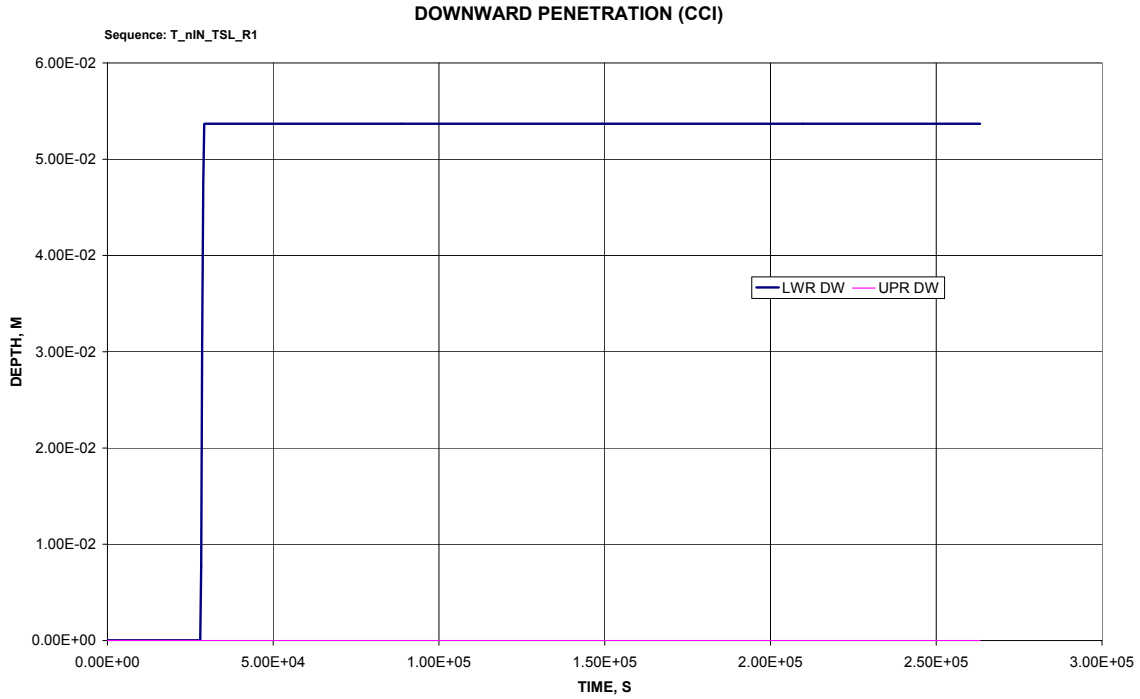

Figure 8B-1h. CDI TSL Downward CCI Penetration

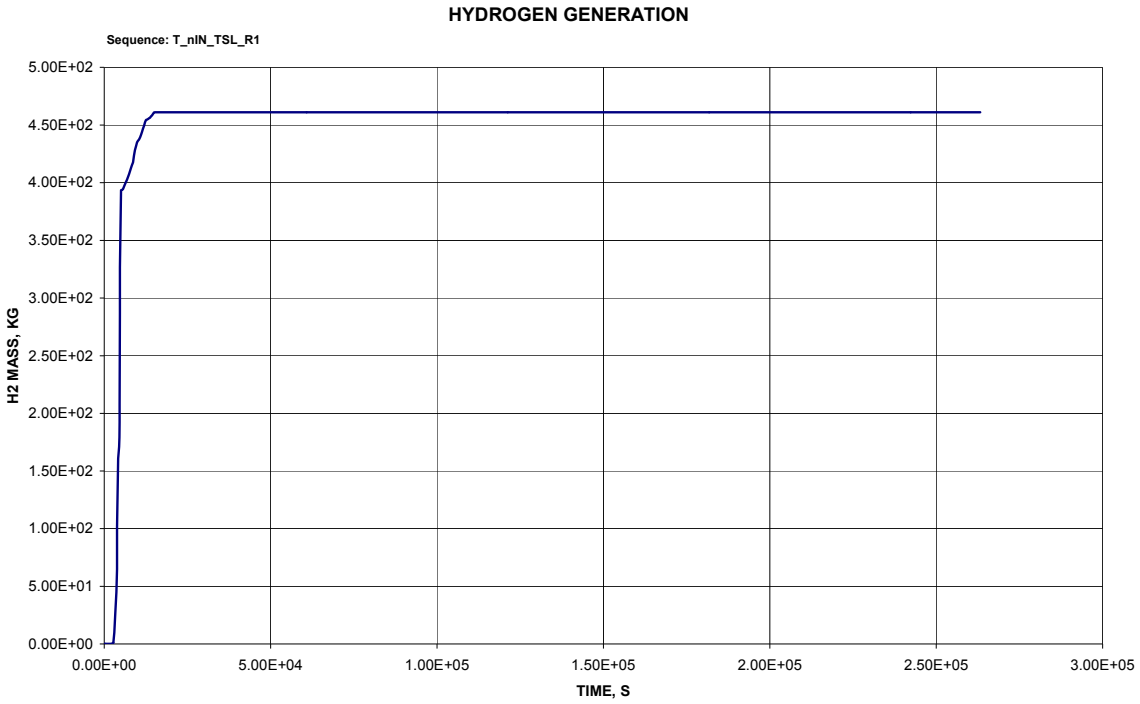

Figure 8B-1i. CDI TSL Hydrogen Generation

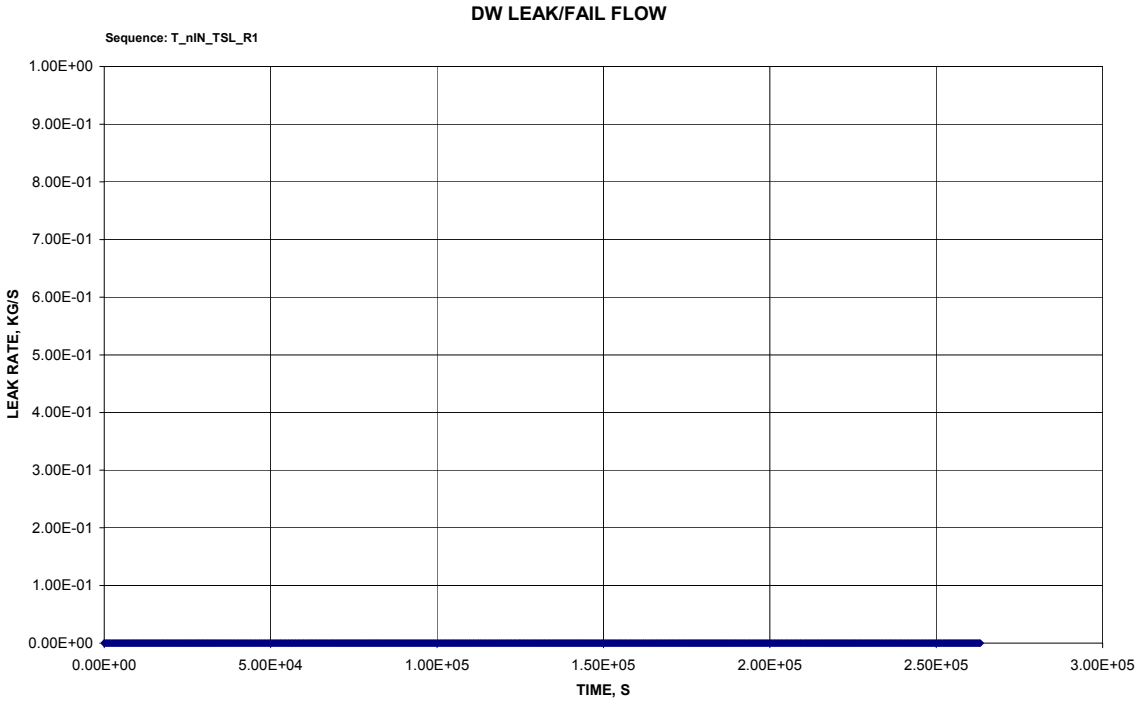

Figure 8B-1j. CDI TSL Drywell Leak/Failure Flow Rate

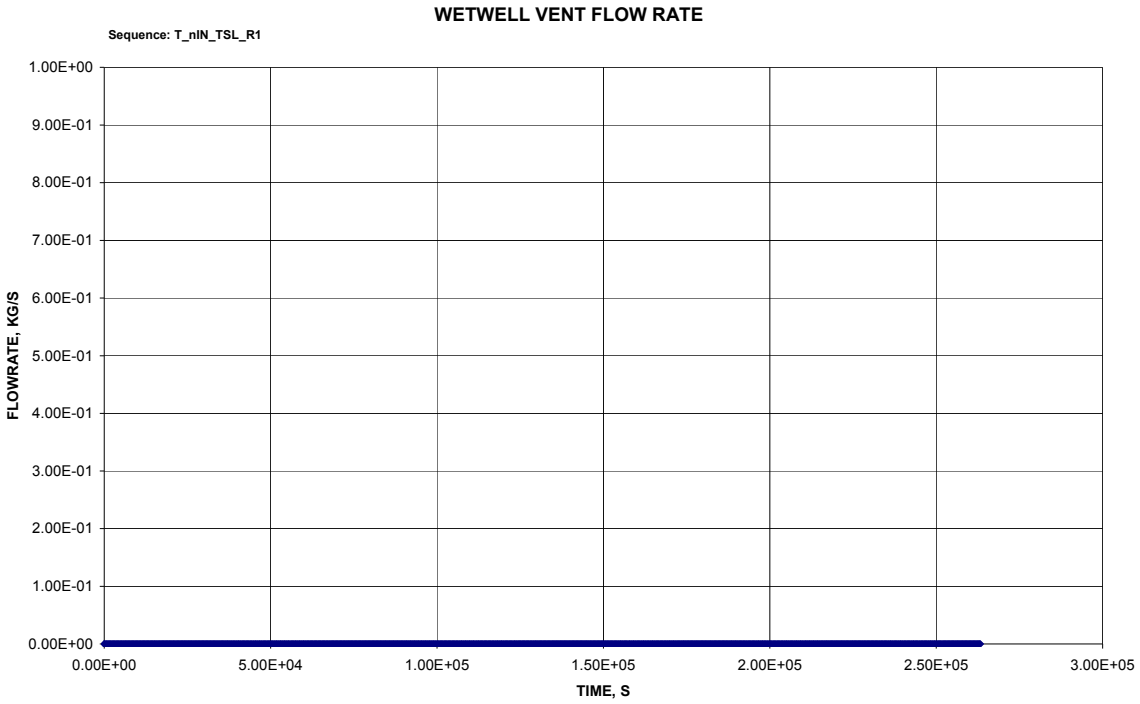

Figure 8B-1k. CDI TSL Wetwell Vent Flow Rate

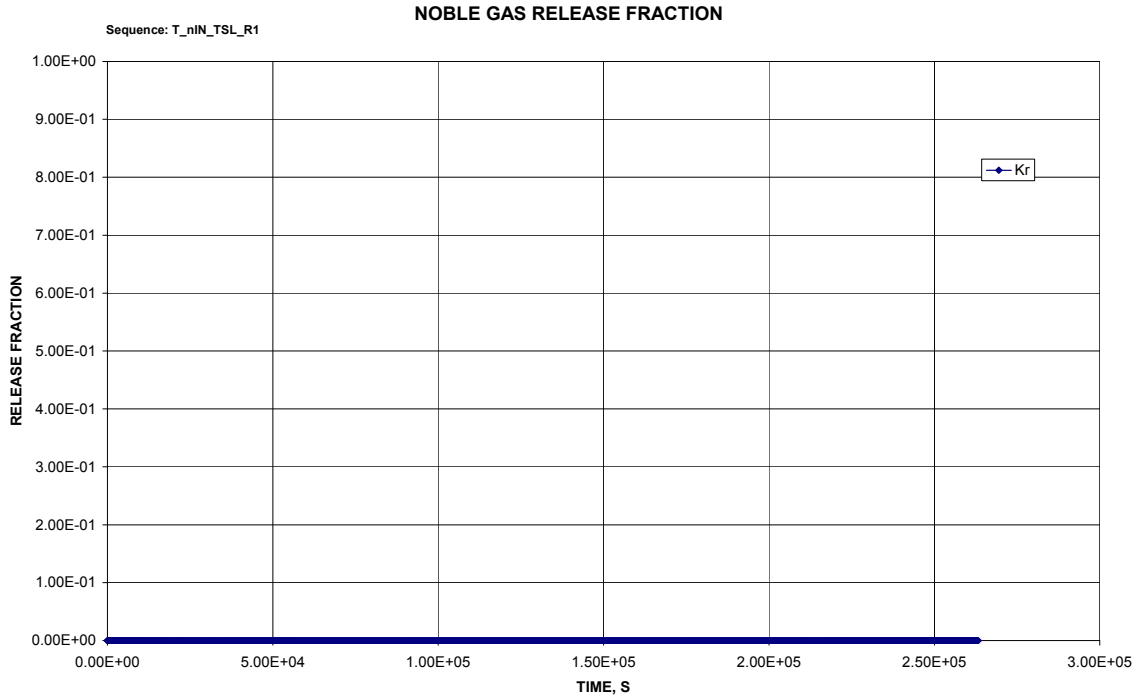

Figure 8B-1l. CDI TSL Noble Gas Release Fraction

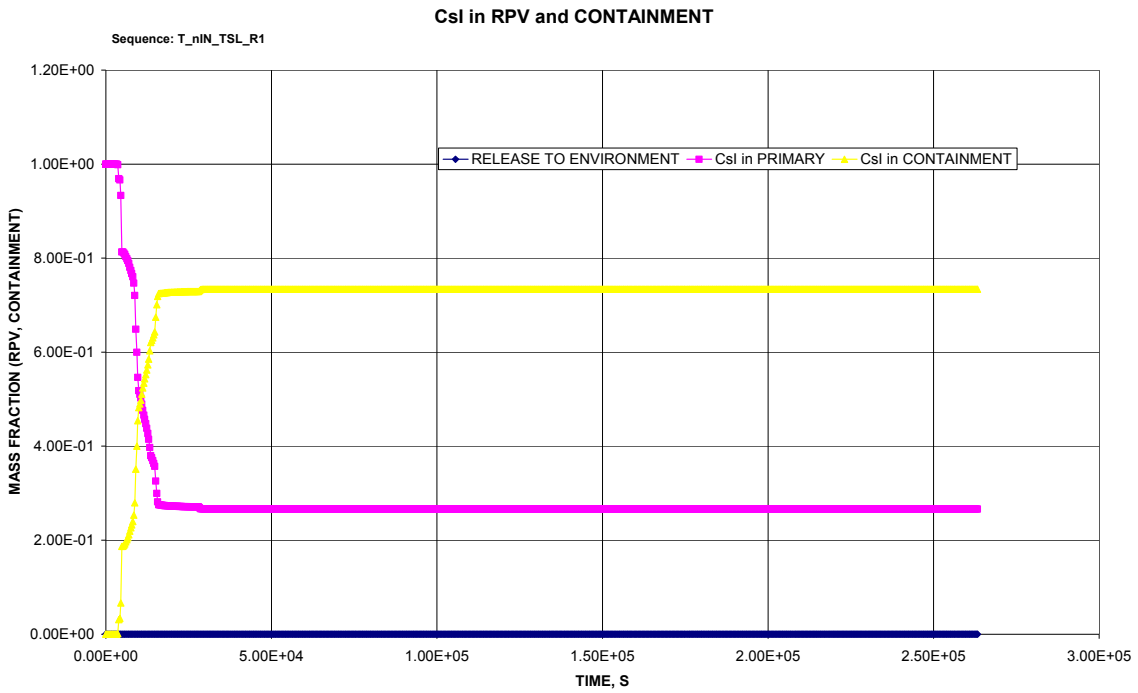

Figure 8B-1m. CDI TSL CsI Distribution

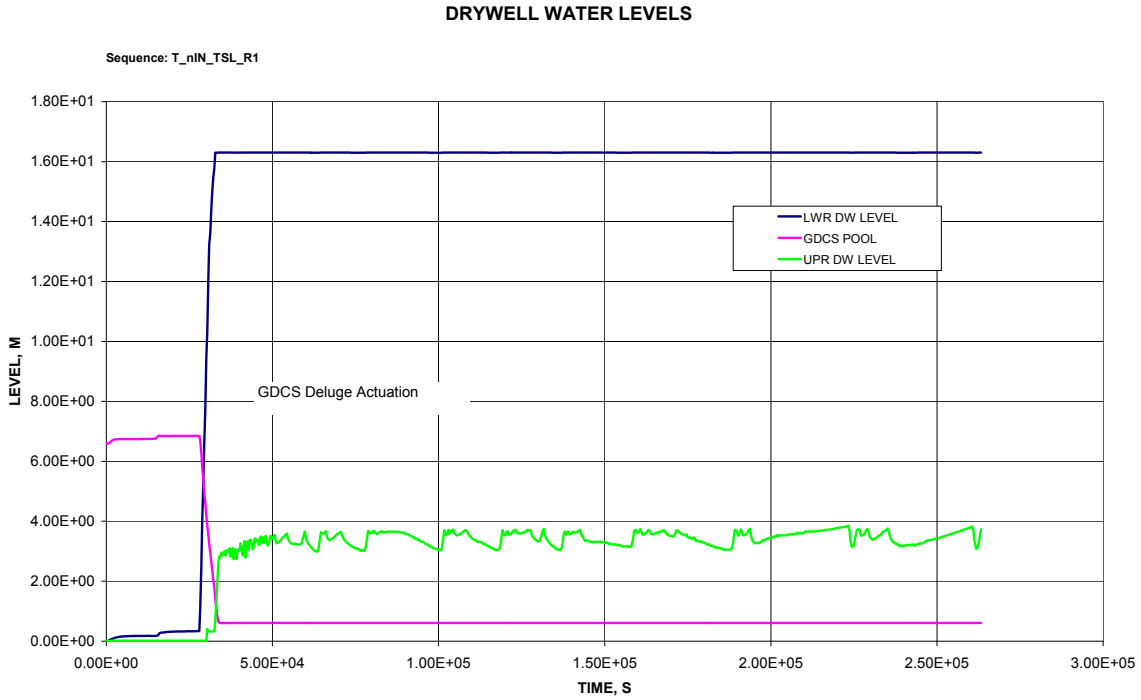

Figure 8B-1n. CDI TSL Drywell Water Levels

8B.2 – Class I Representative Sequence (T_nIN_nCHR_FR)

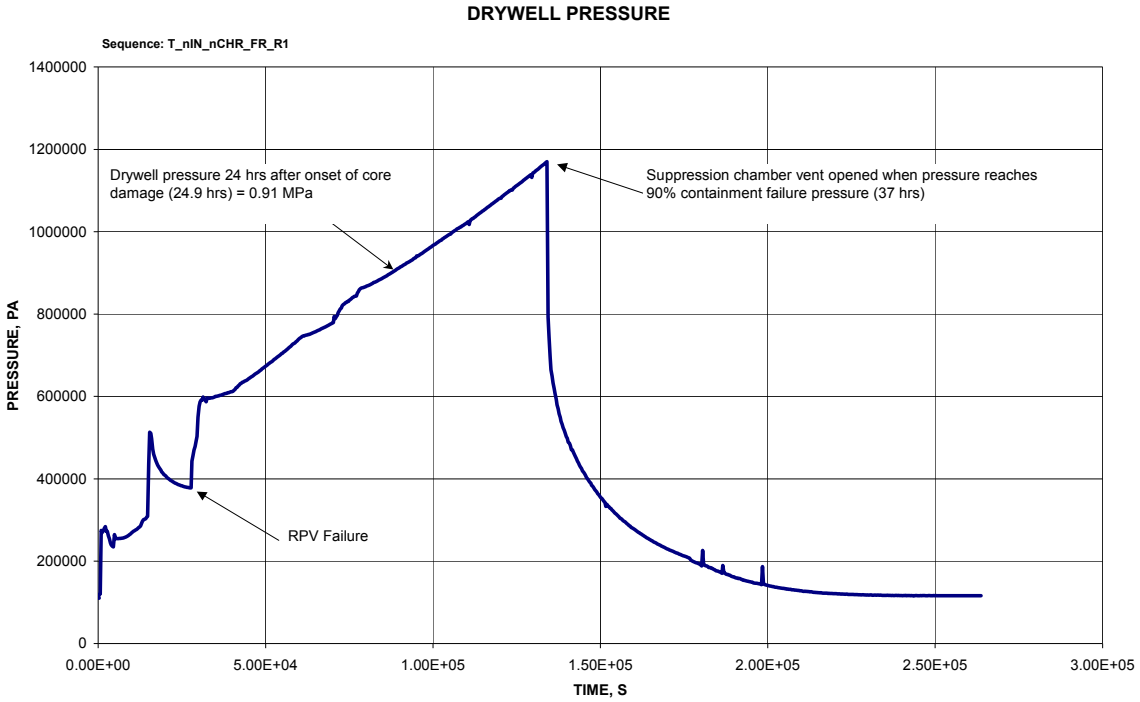

Figure 8B-2a. CDI FR Containment Pressures

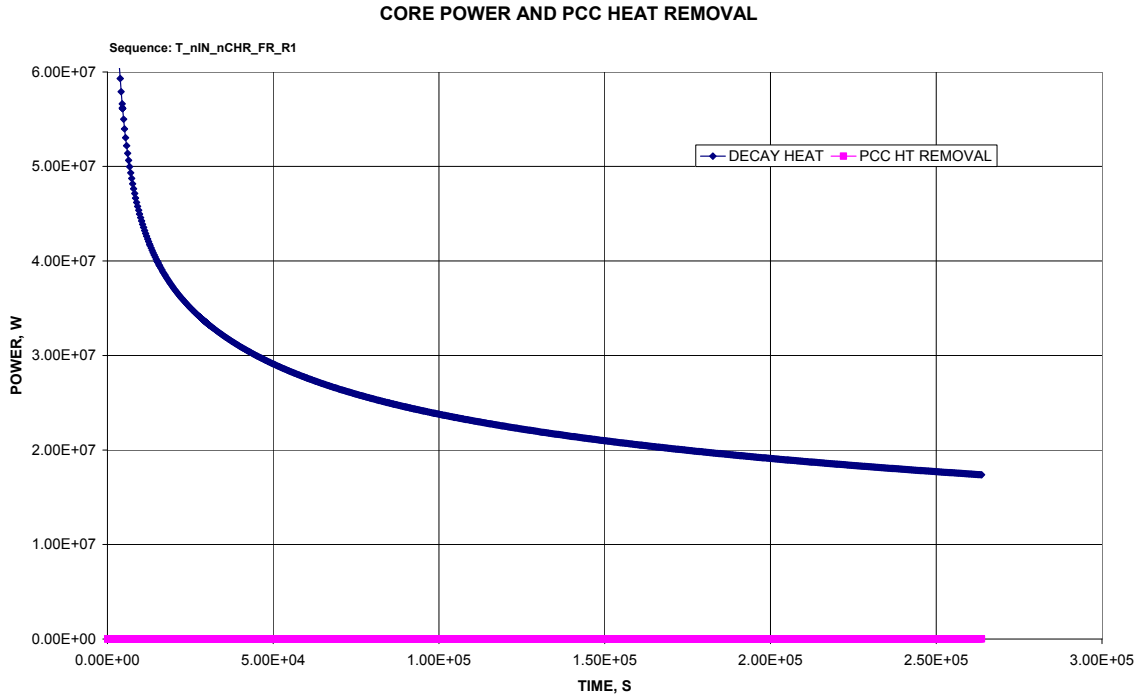

Figure 8B-2b. CDI FR Core Power and PCCS Heat Removal

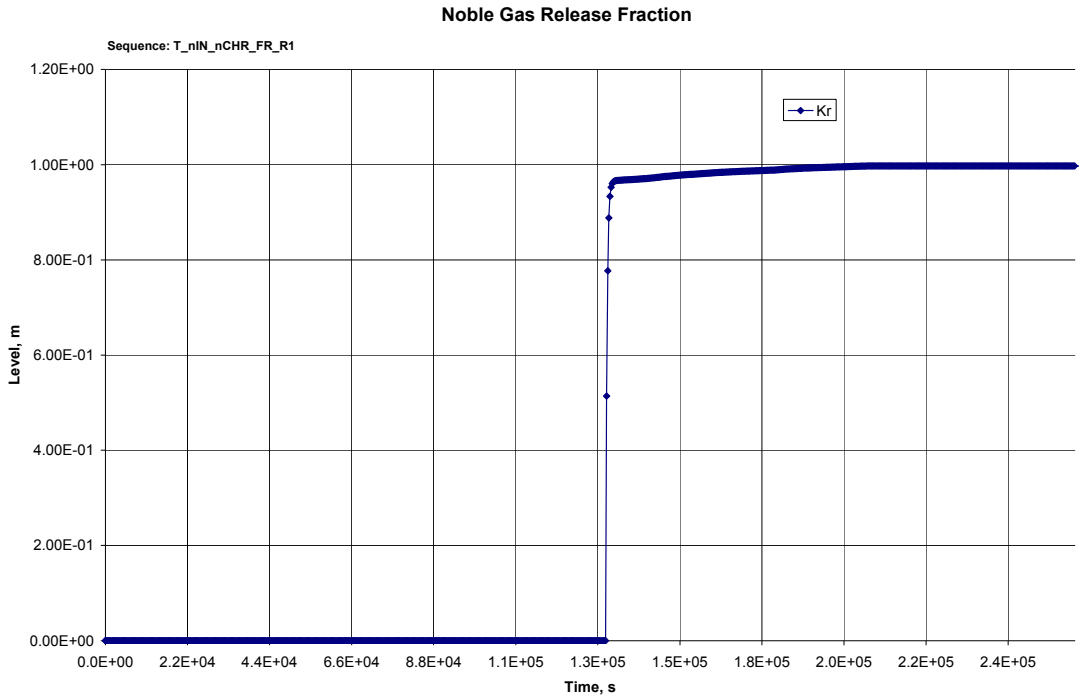

Figure 8B-2c. CDI FR Noble Gas Release Fraction

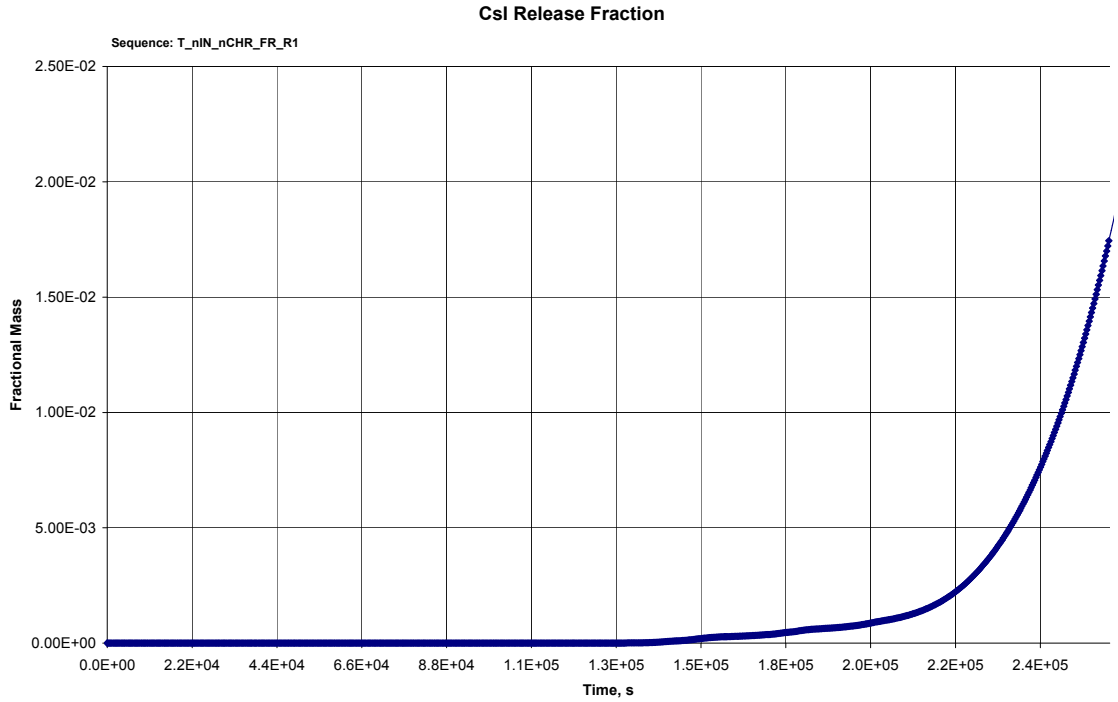

Figure 8B-2d. CDI FR CsI Release Fraction

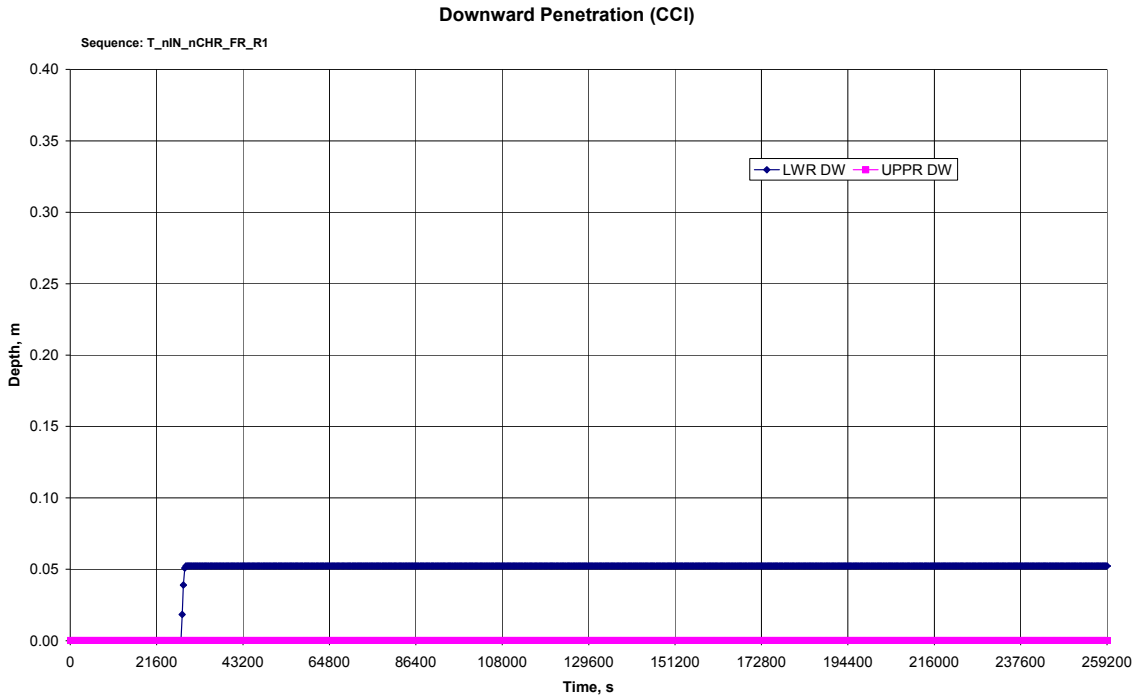

Figure 8B-2e CDI FR Core Concrete Interaction

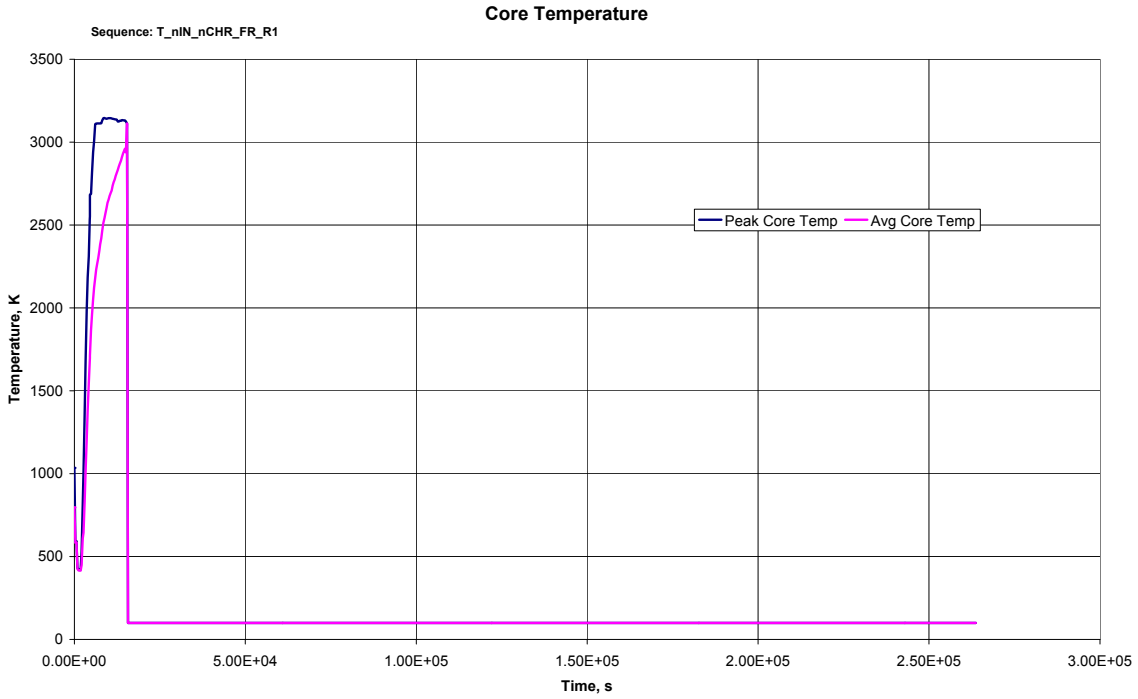

Figure 8B-2f. CDI FR Core Temperature

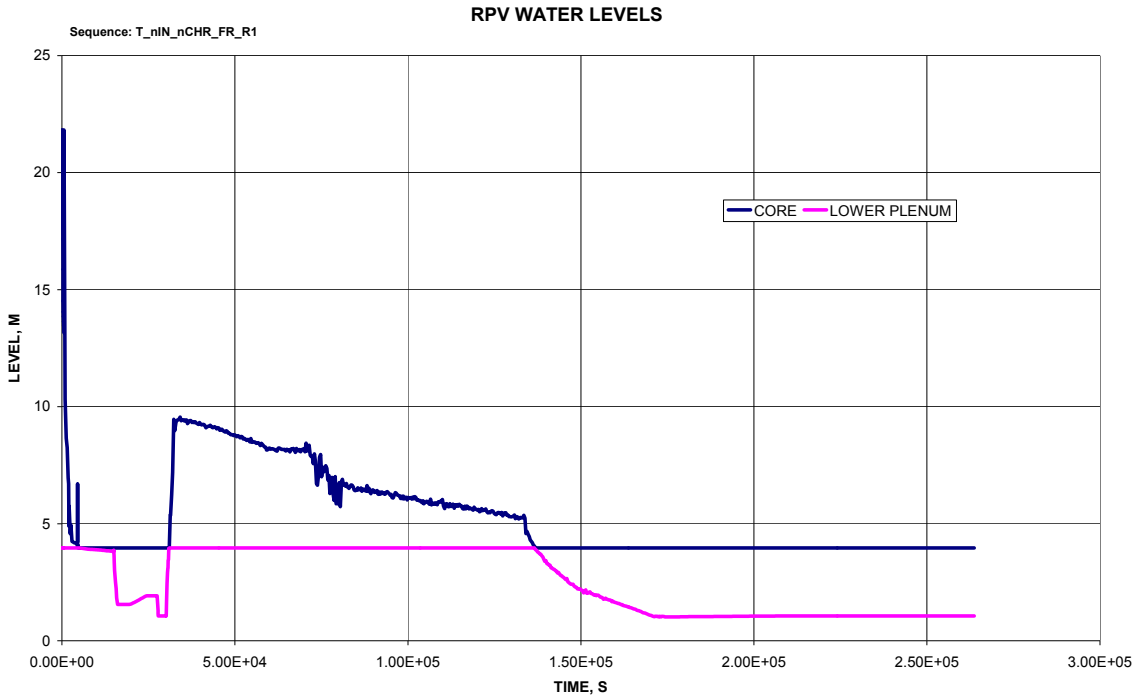

Figure 8B-2g. CDI FR RPV Water Levels

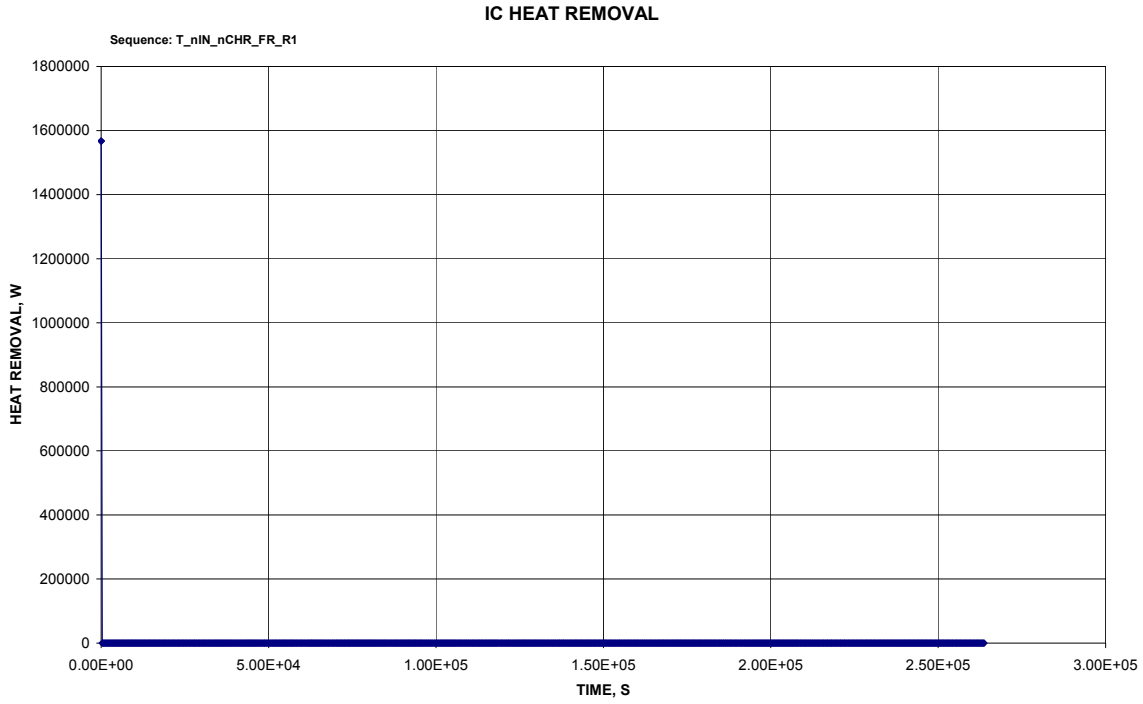

Figure 8B-2h. CDI FR ICS Heat Removal

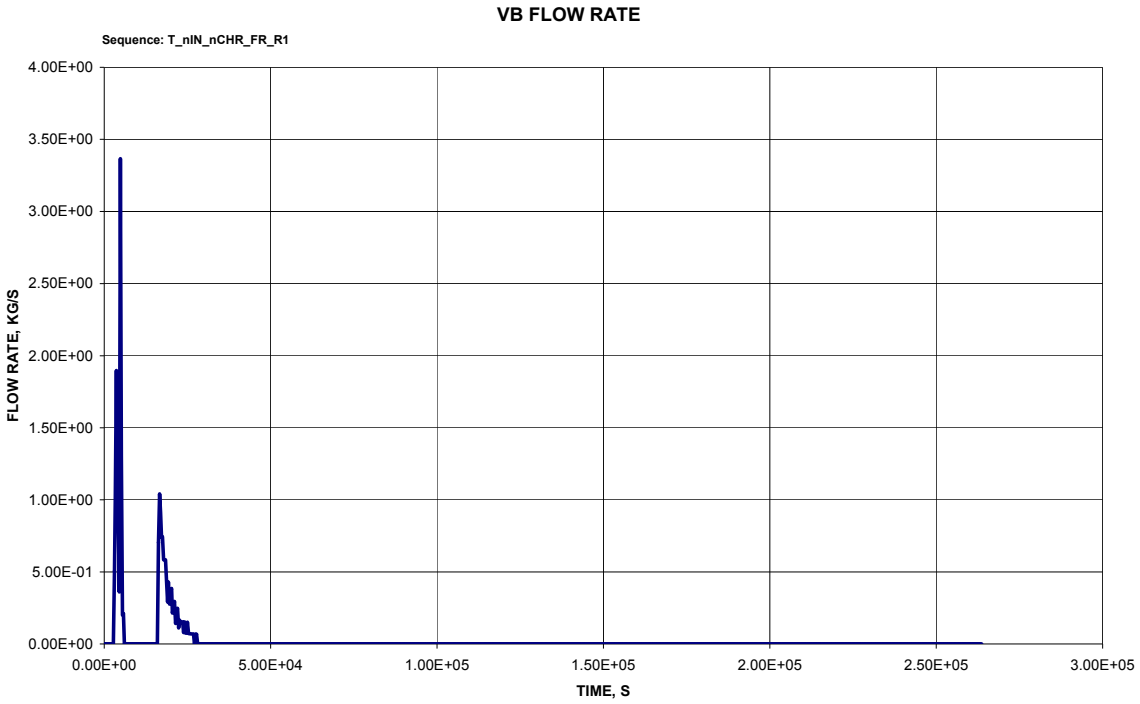

Figure 8B-2i. CDI FR Vacuum Breaker Flow Rate

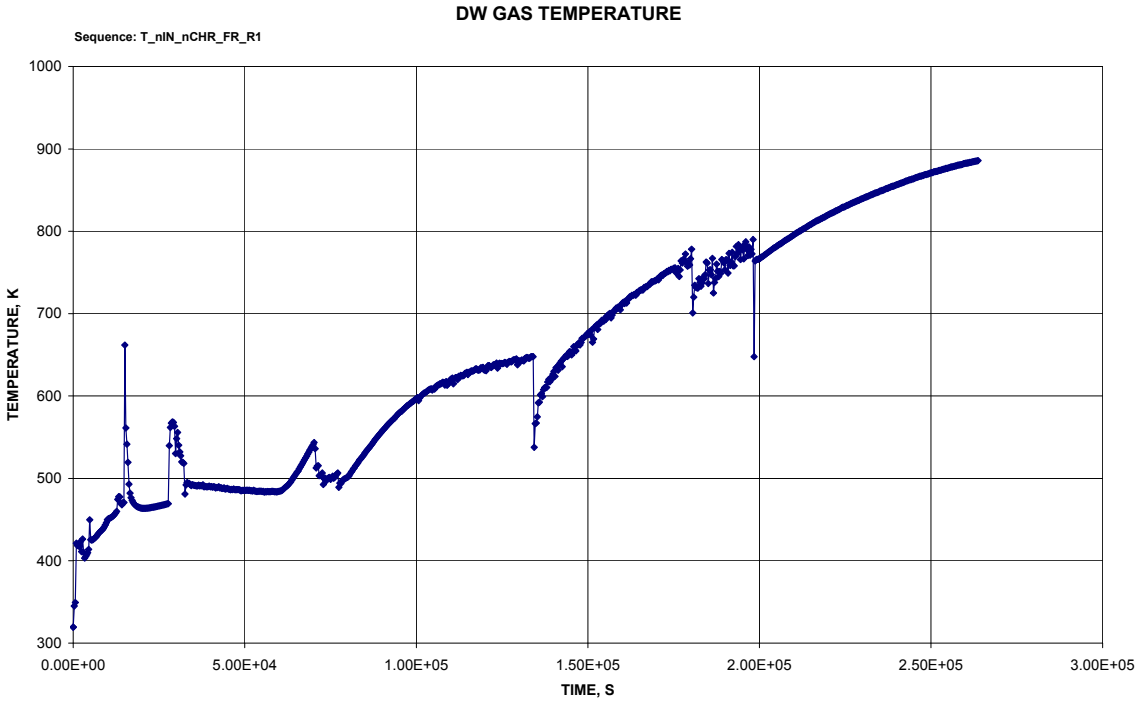

Figure 8B-2j. CDI FR Drywell Gas Temperature

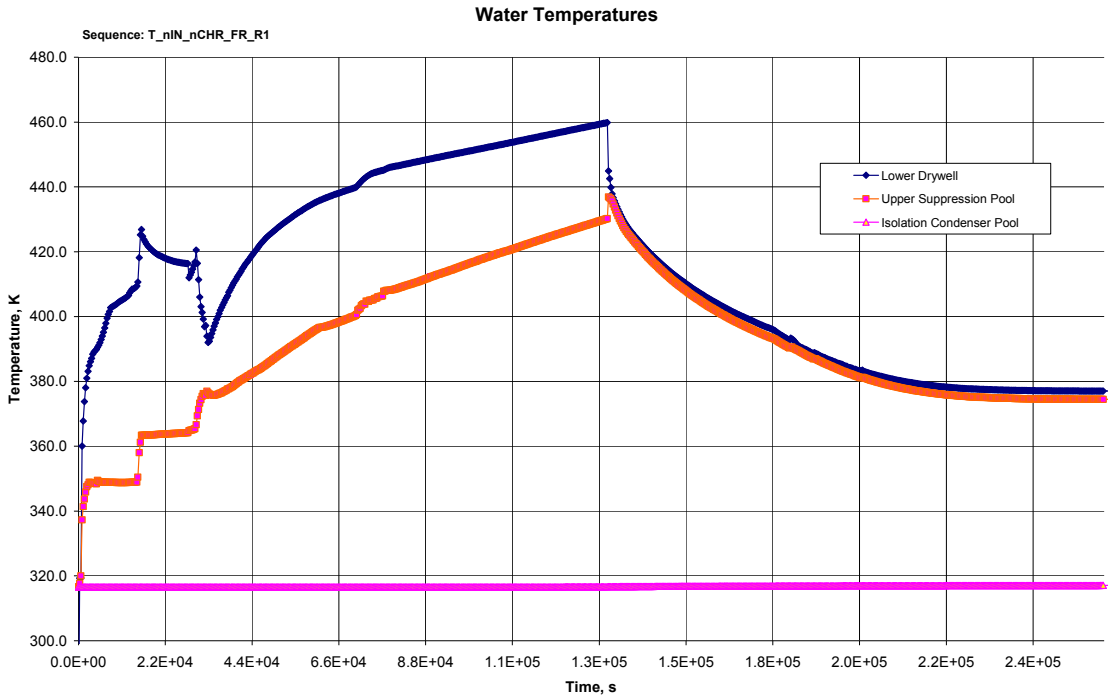

Figure 8B-2k. CDI FR Water Temperatures

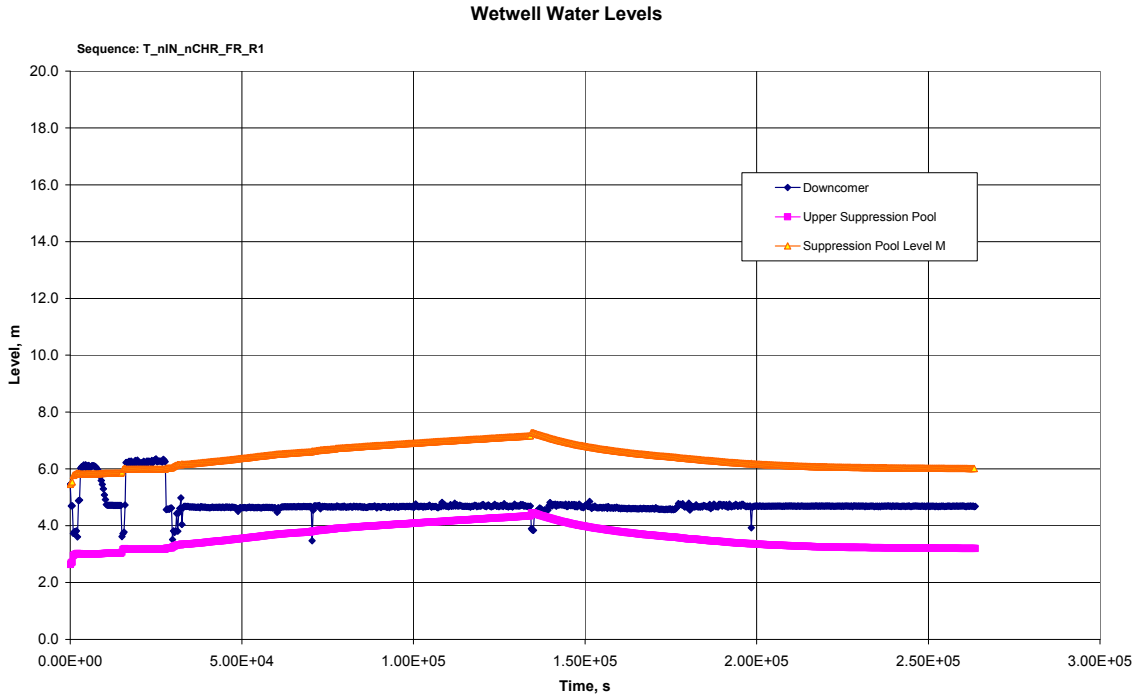

Figure 8B-2l. CDI FR Wetwell Water Levels

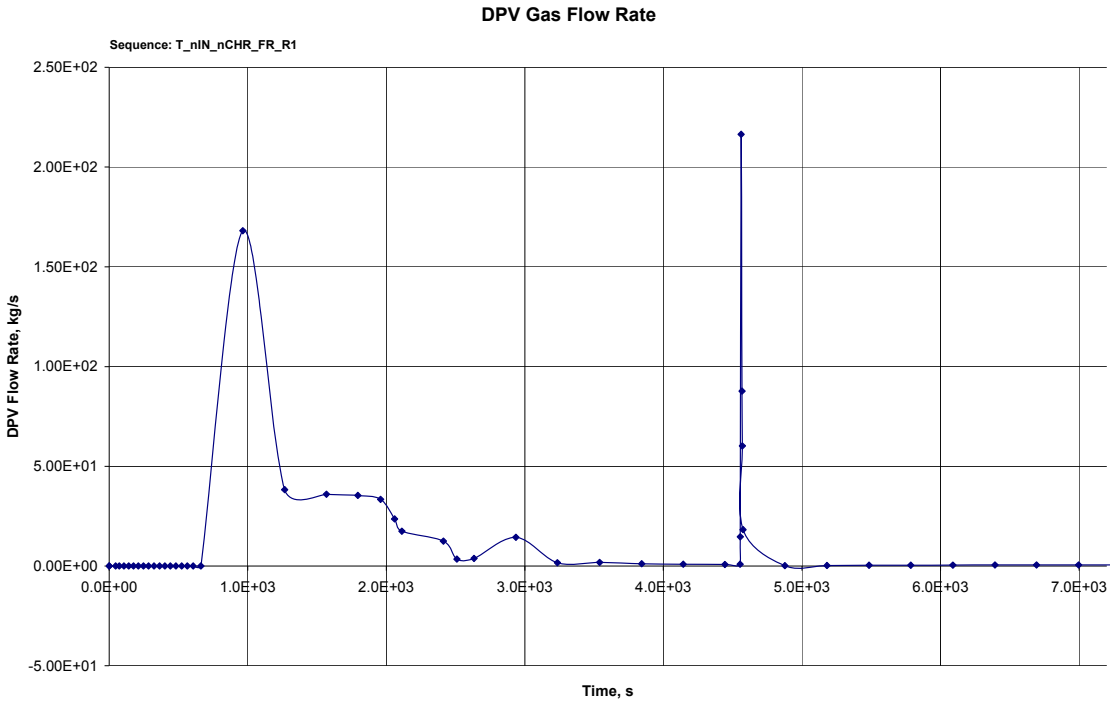

Figure 8B-2m. CDI FR SRV Gas Flow Rate vs Time

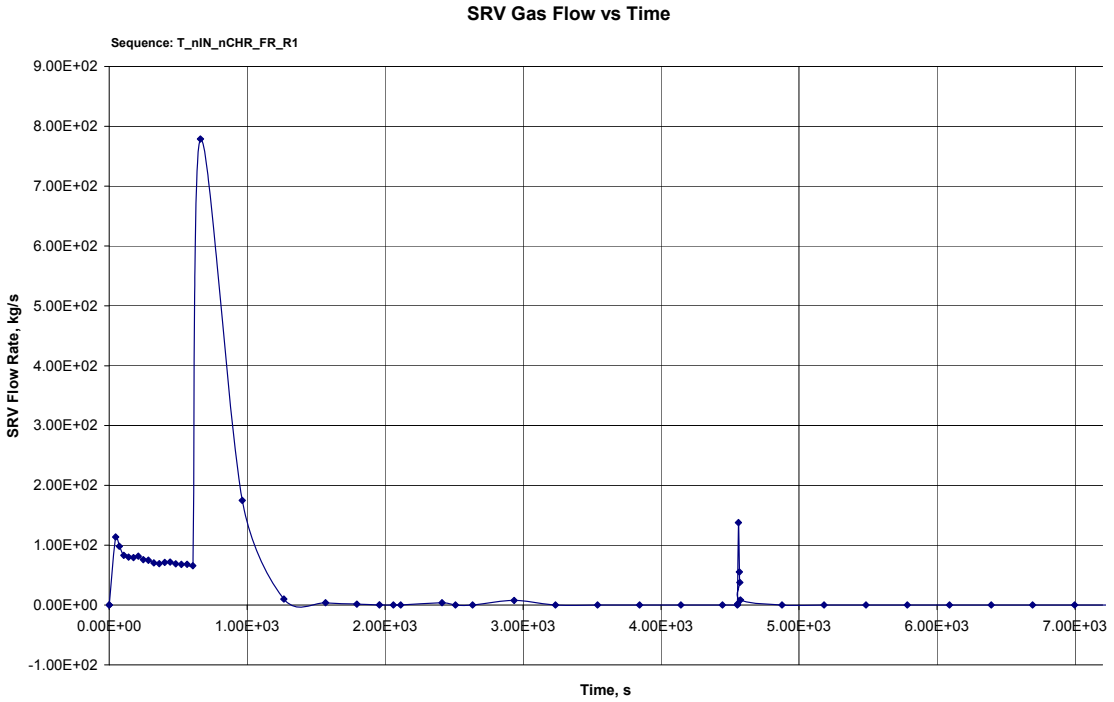

Figure 8B-2n. CDI FR DPV Gas Flow Rate vs Time

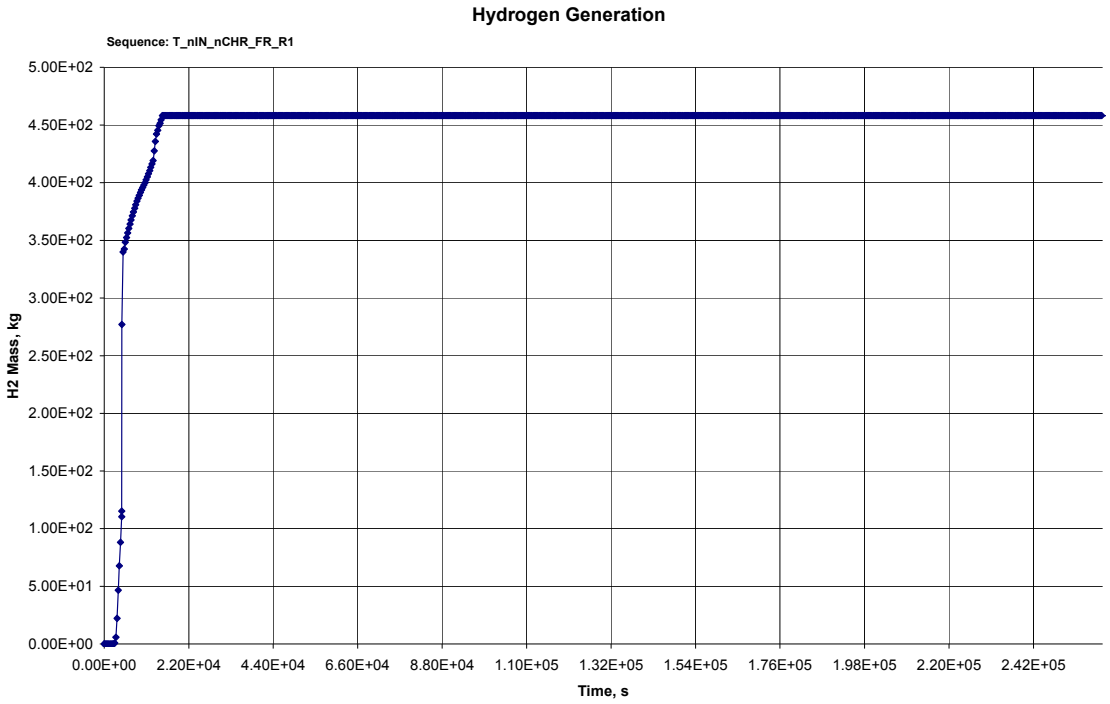

Figure 8B-2o. CDI FR Hydrogen Generation

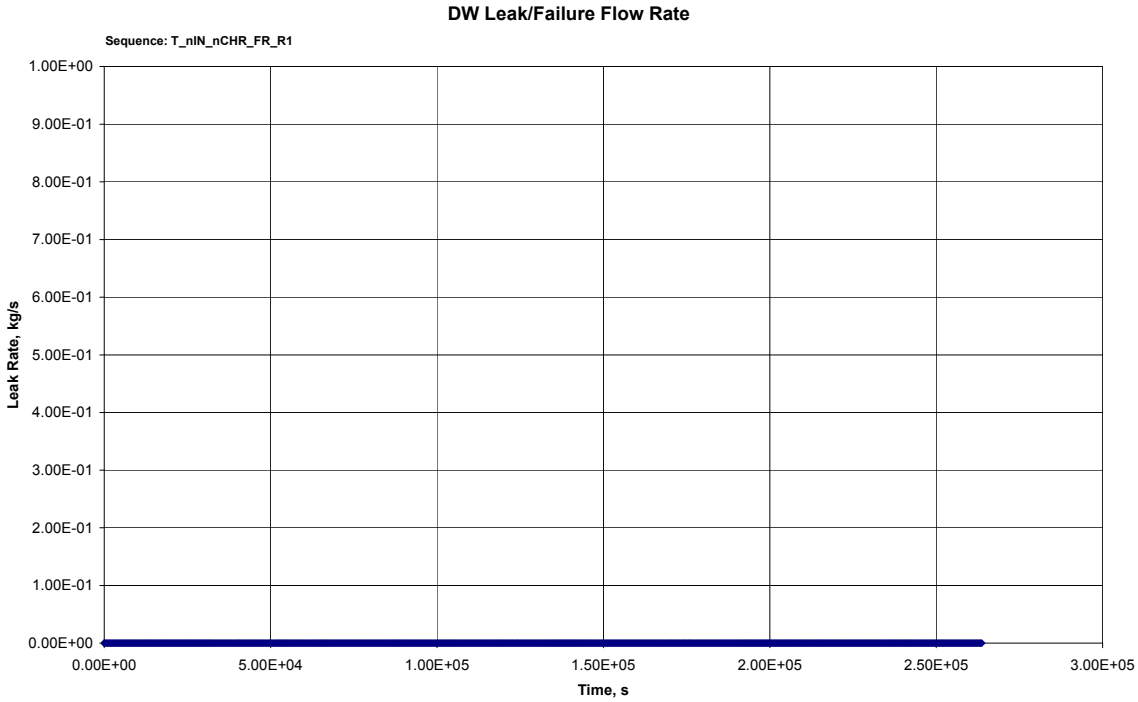

Figure 8B-2p. CDI FR Drywell Leak/Failure Flow Rate

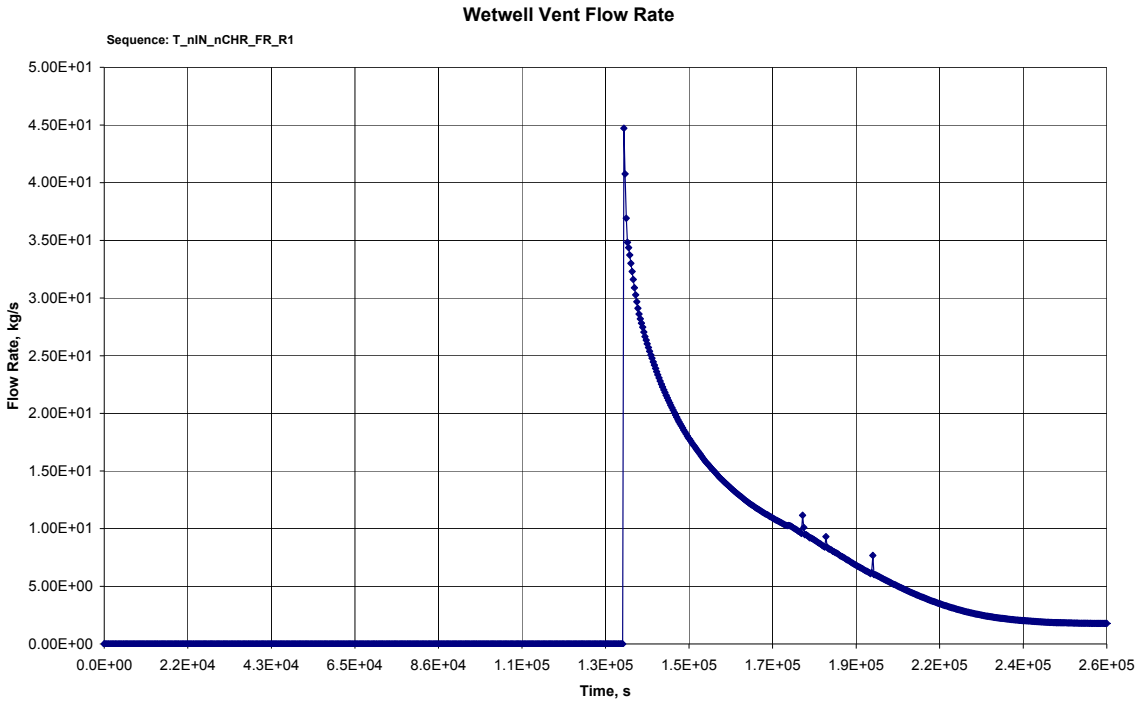

Figure 8B-2q. CDI FR Wetwell Vent Flow Rate

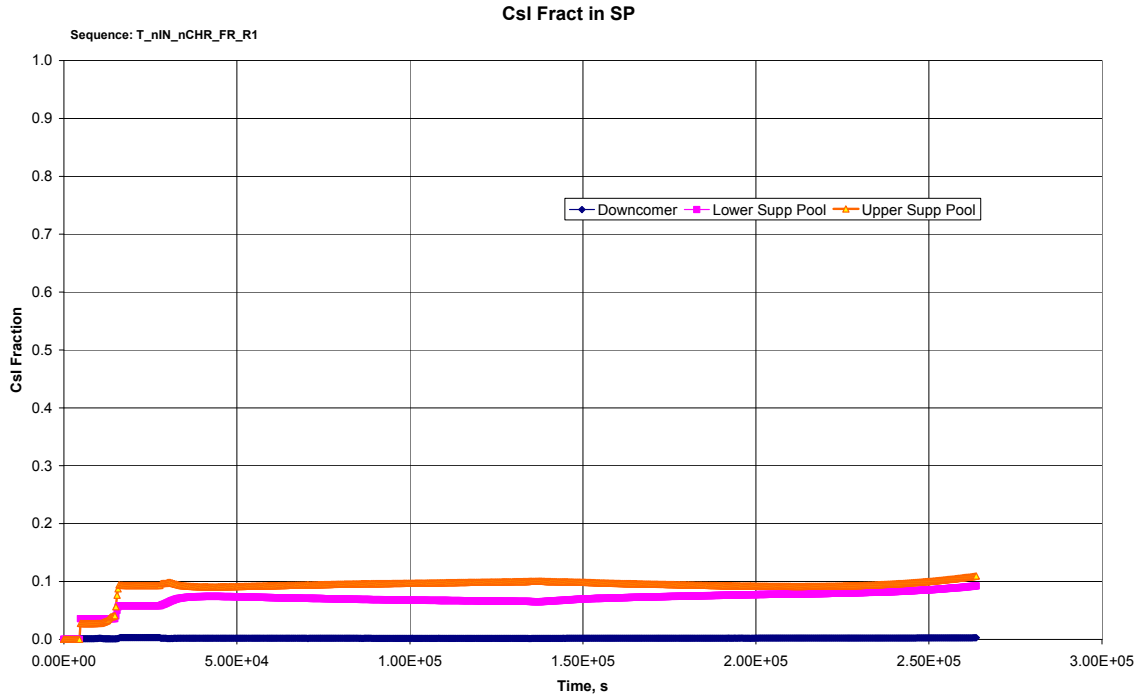

Figure 8B-2r. CDI FR CsI Fraction in Suppression Pool

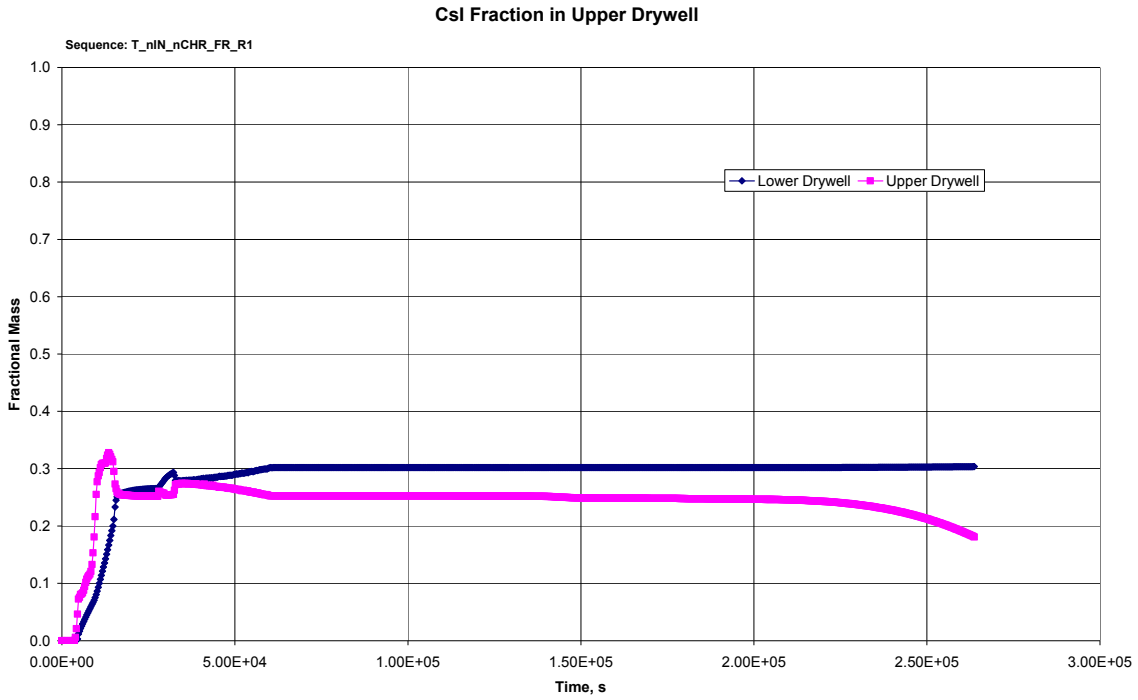

Figure 8B-2s. CDI FR CsI Fraction in Upper Drywell

8B.3 – Class II Representative Sequence (MLi_nCHR)

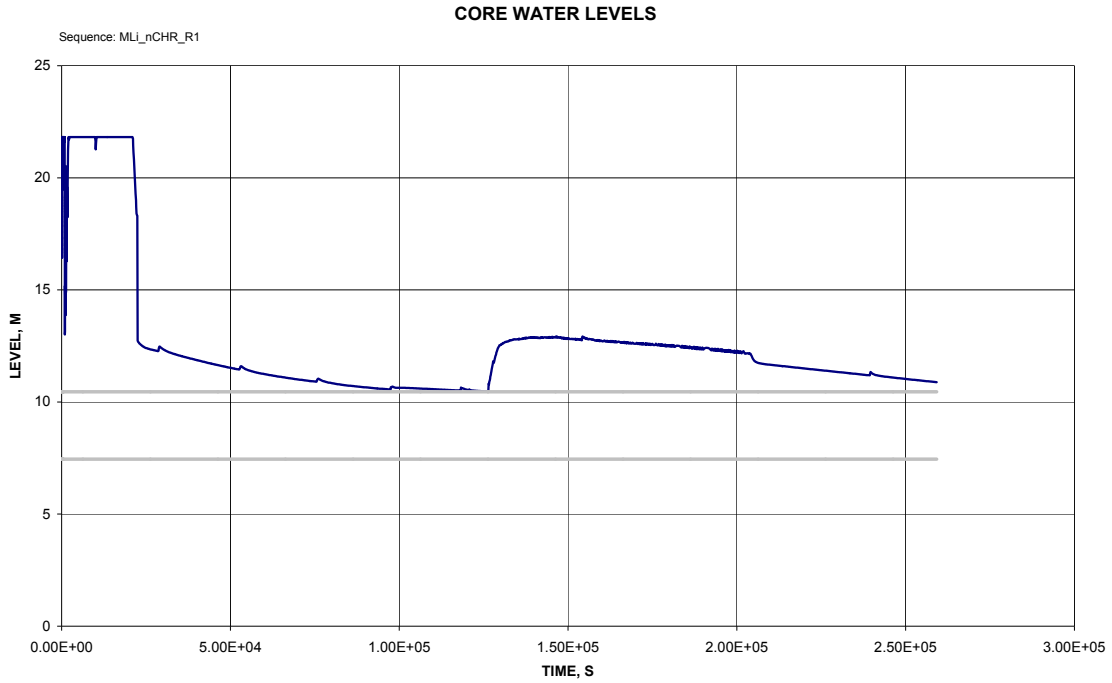

Figure 8B-3a. CDII Core Water Level

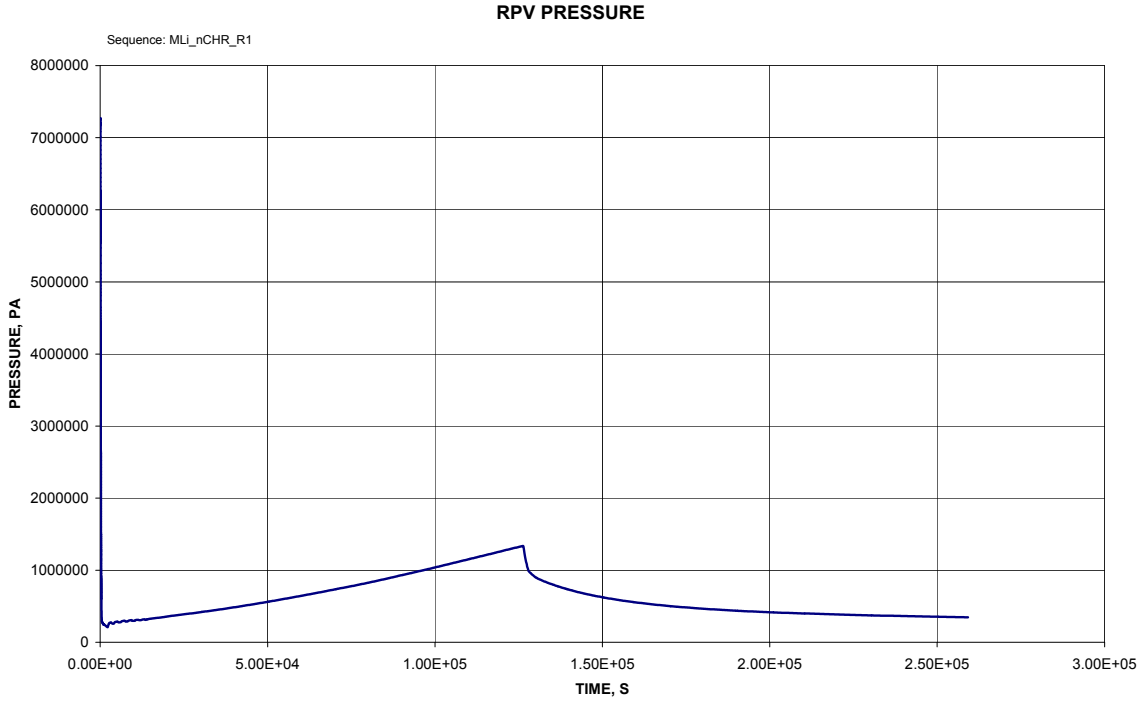

Figure 8B-3b. CDII RPV Pressure

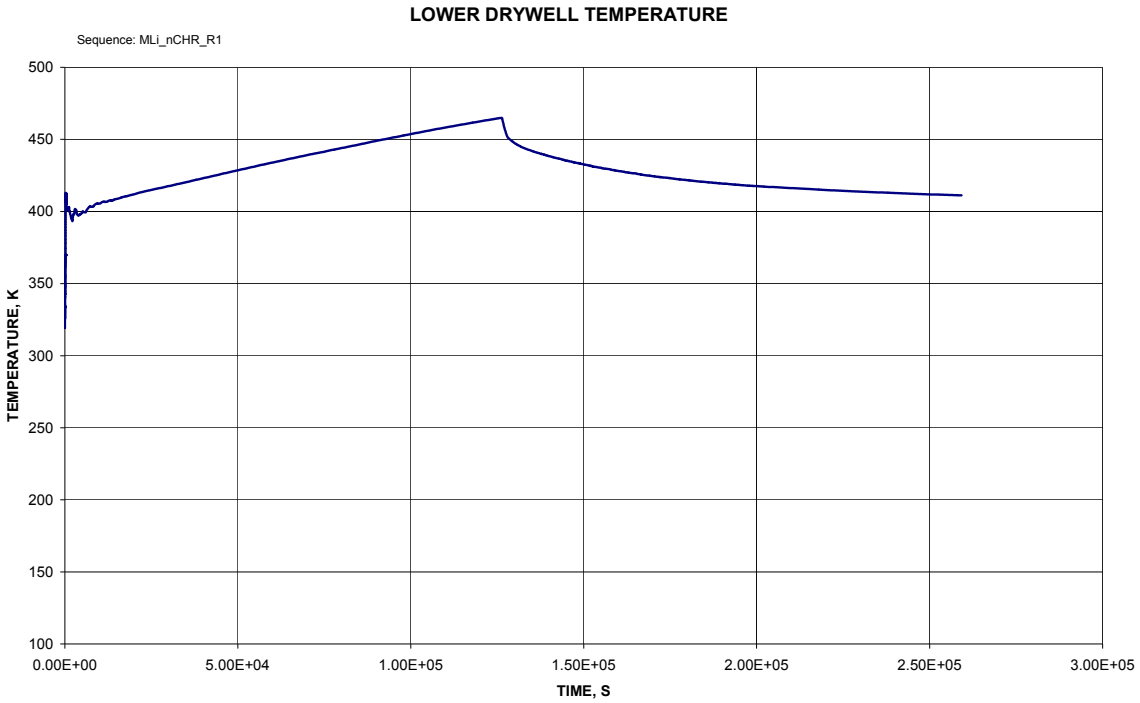

Figure 8B-3c. CDII LDW Temperature

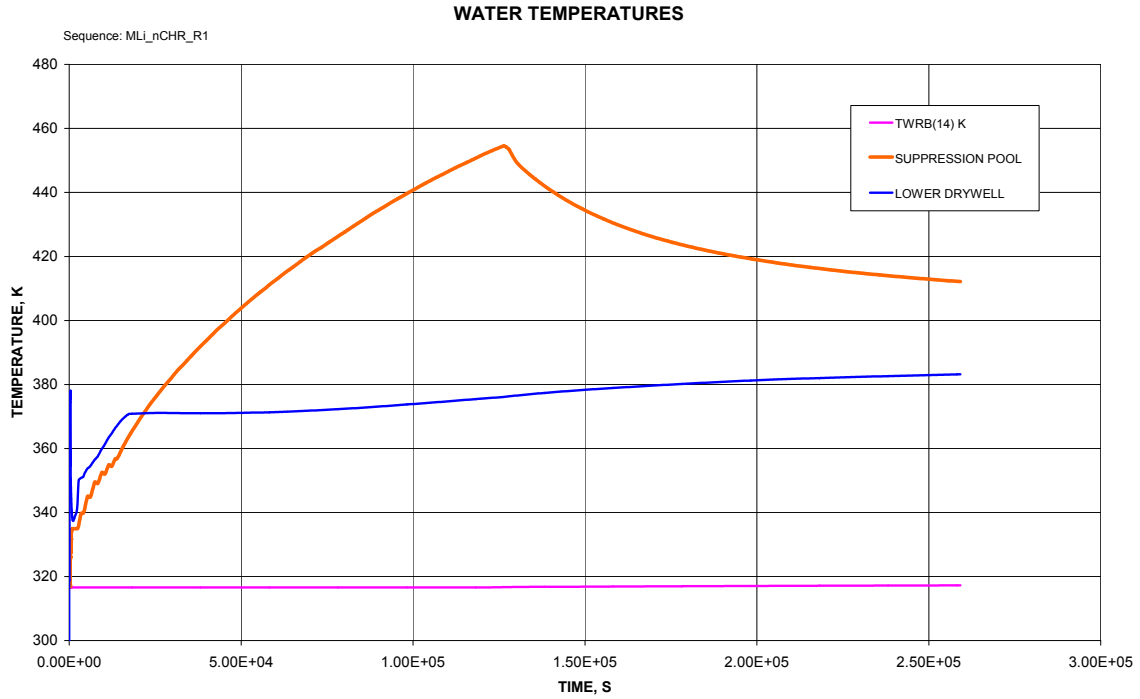

Figure 8B-3d. CDII Water Temperatures

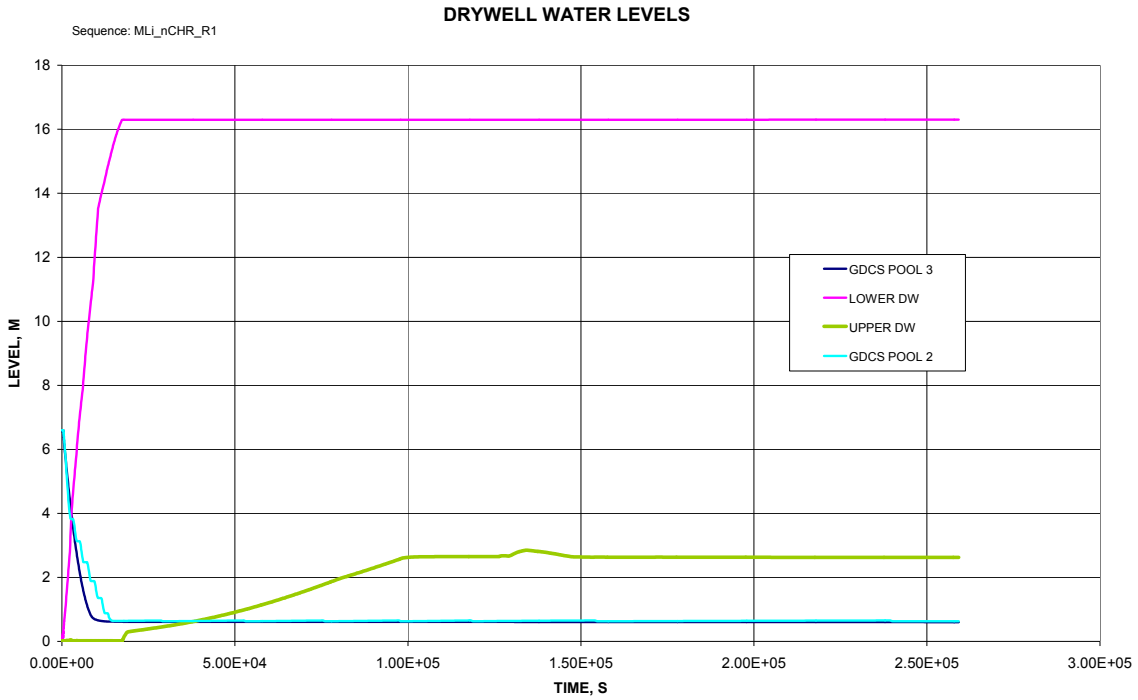

Figure 8B-3e. CDII Drywell Water Levels

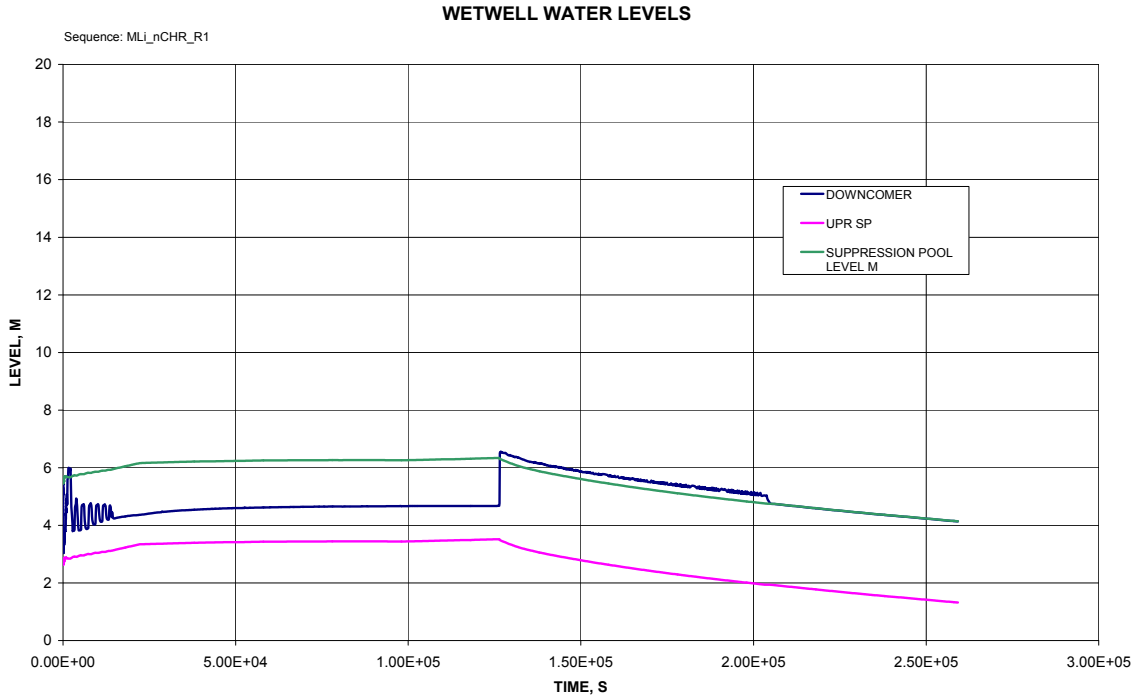

Figure 8B-3f. CDII Wetwell Water Levels

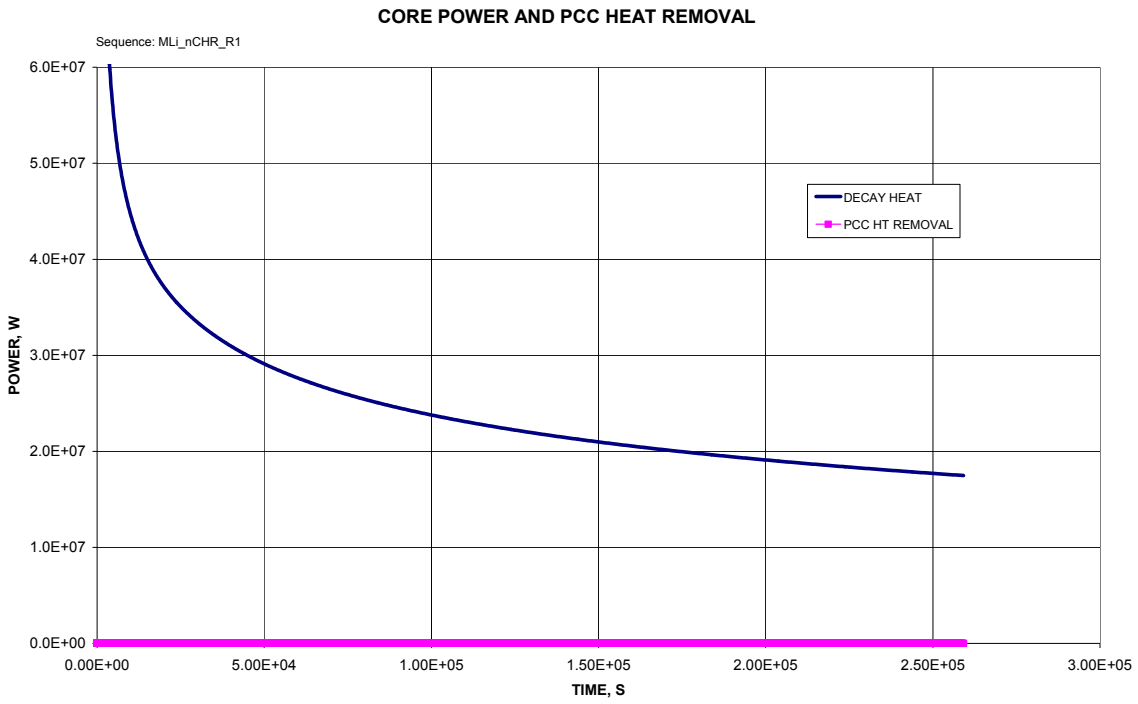

Figure 8B-3g. CDII Core Power and PCCS Heat Removal

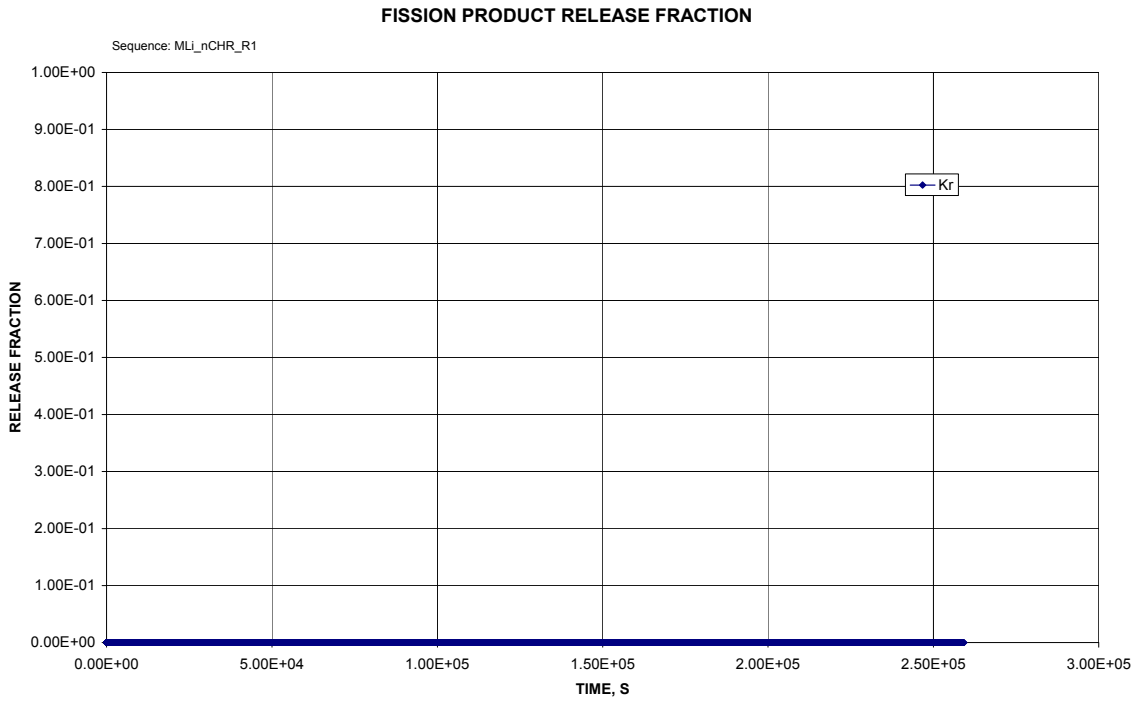

Figure 8B-3h. CDII Noble Gases Release Fraction

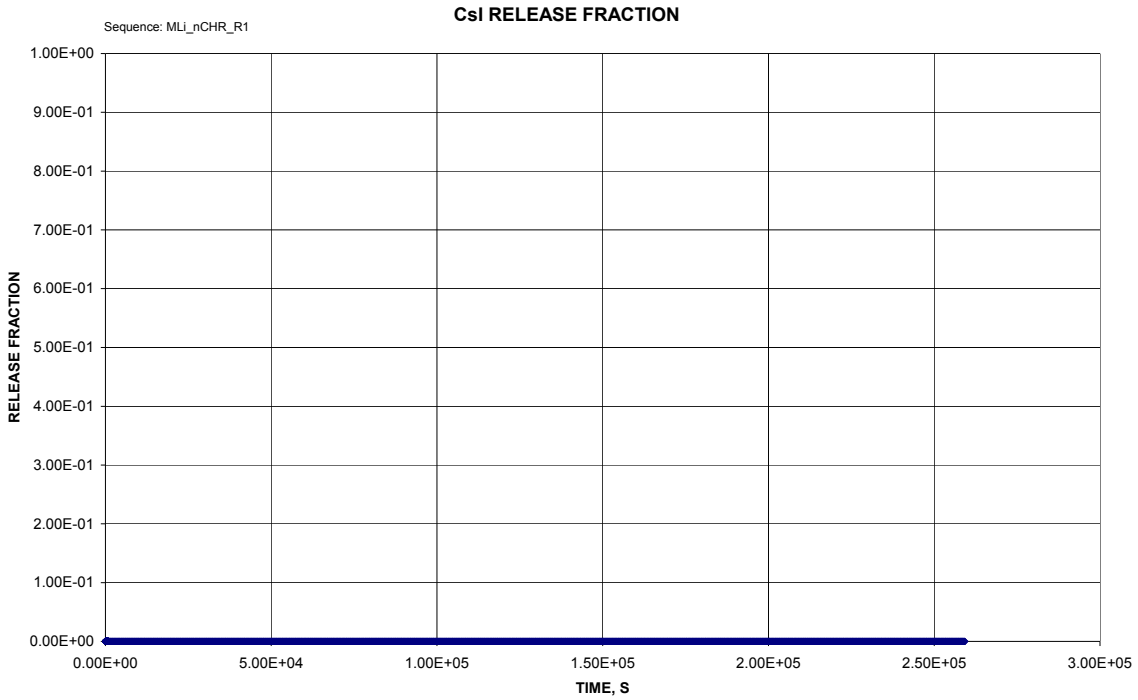

Figure 8B-3i. CDII CsI Release Fraction

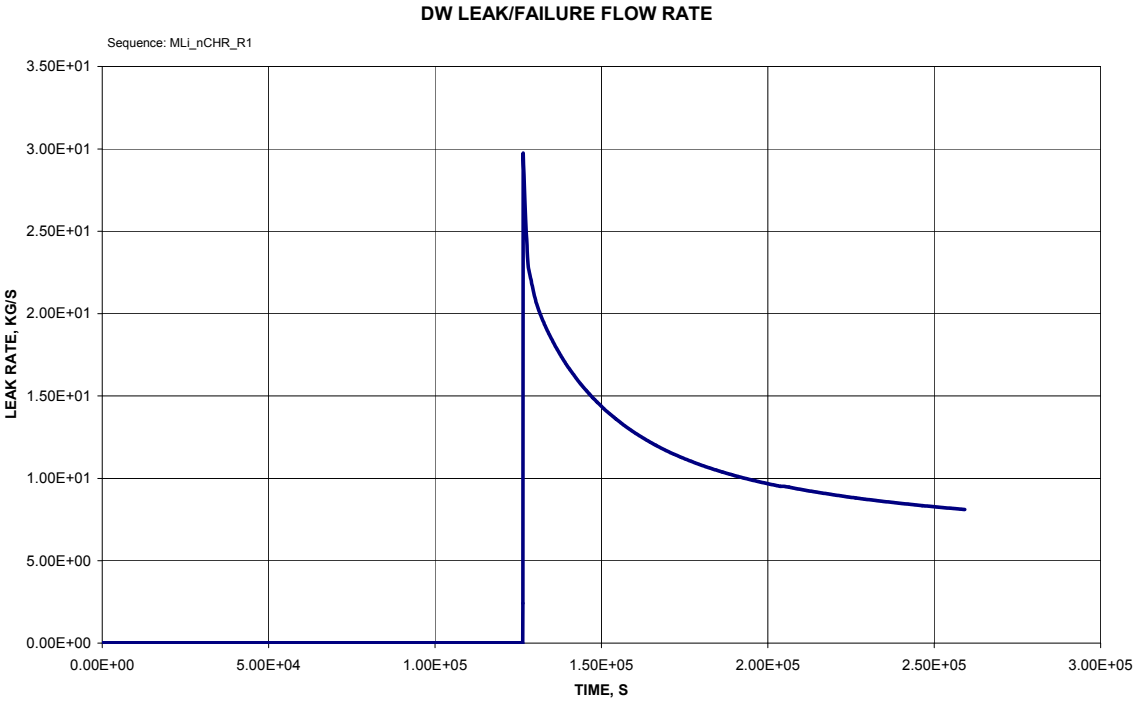

Figure 8B-3j. CDII DW Leak/Failure Flow Rate

8B.4 – Class III Representative Sequence (T_nDP_nIN_TSL)

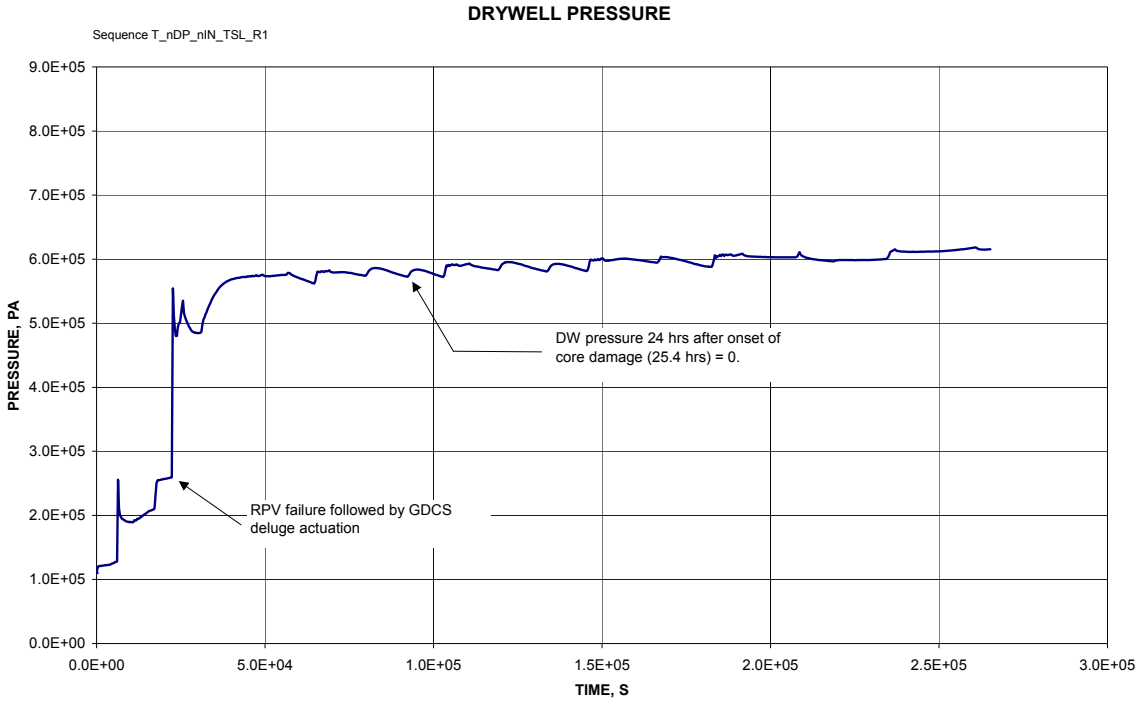

Figure 8B-4a. CDIII TSL Drywell Pressure

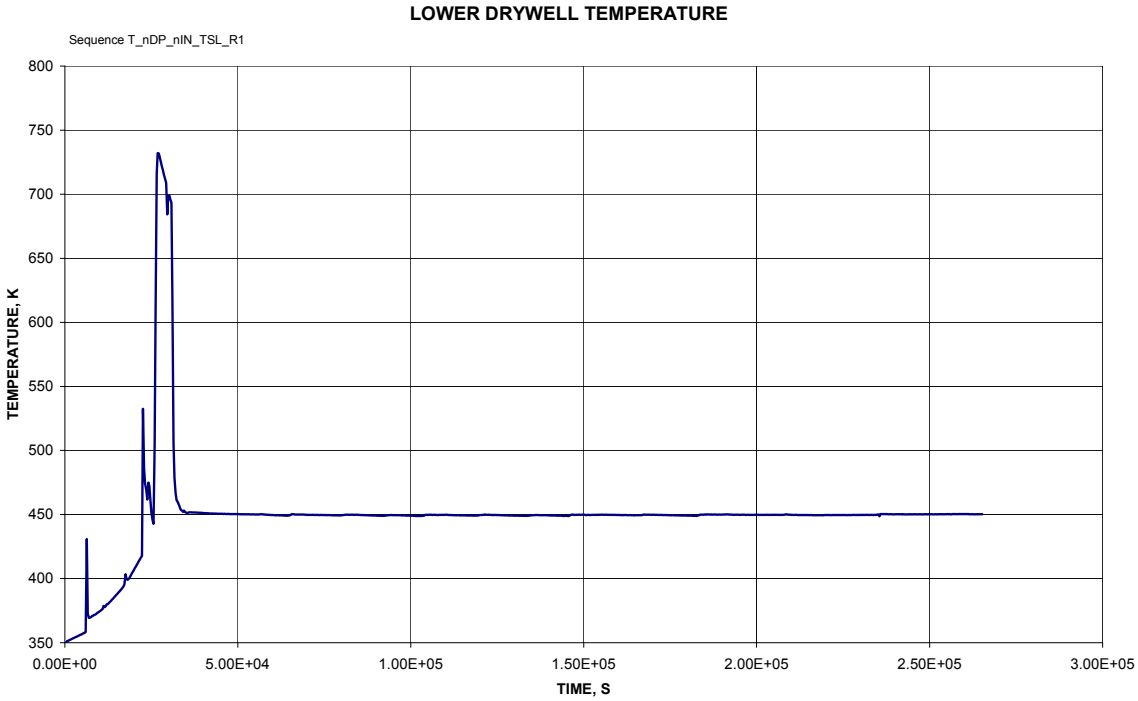

Figure 8B-4b. CDIII TSL Lower Drywell Temperature

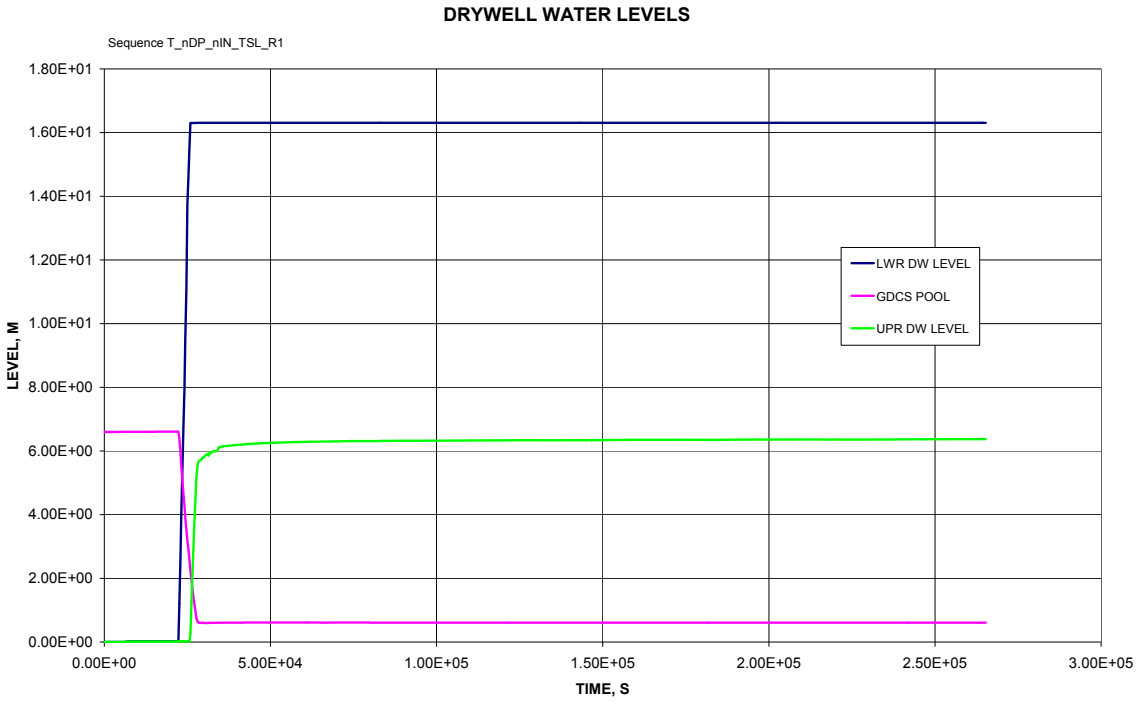

Figure 8B-4c. CDIII TSL Drywell Water Levels

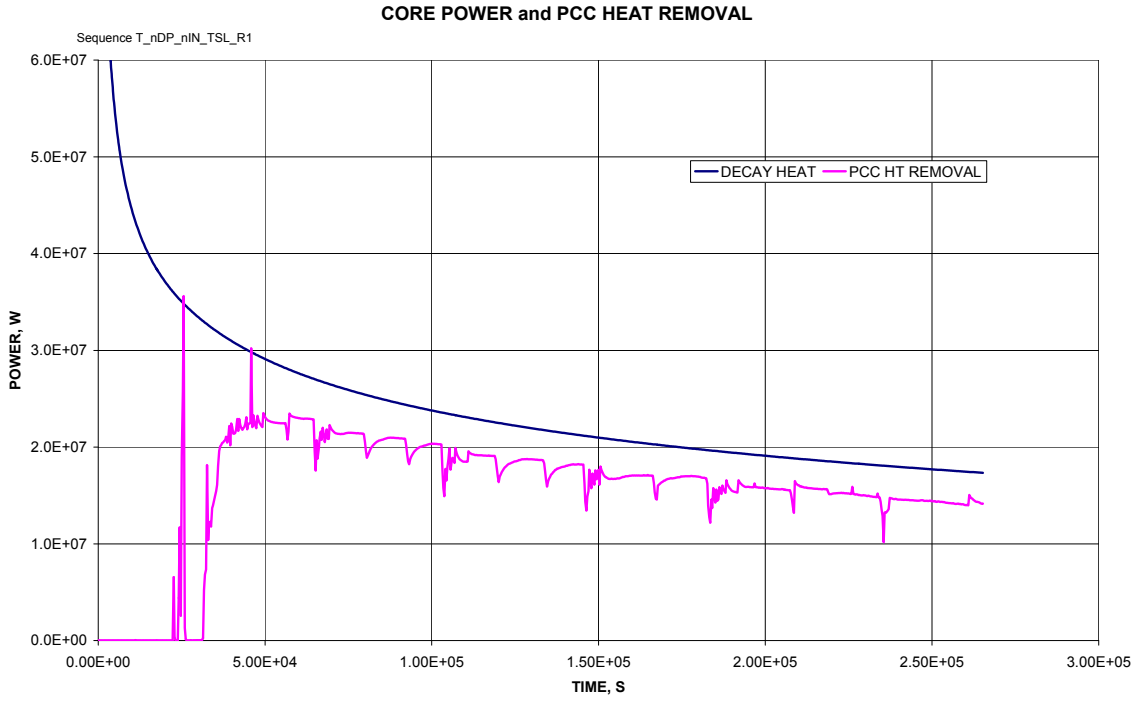

Figure 8B-4d. CDIII TSL Core Power and PCCS Heat Removal

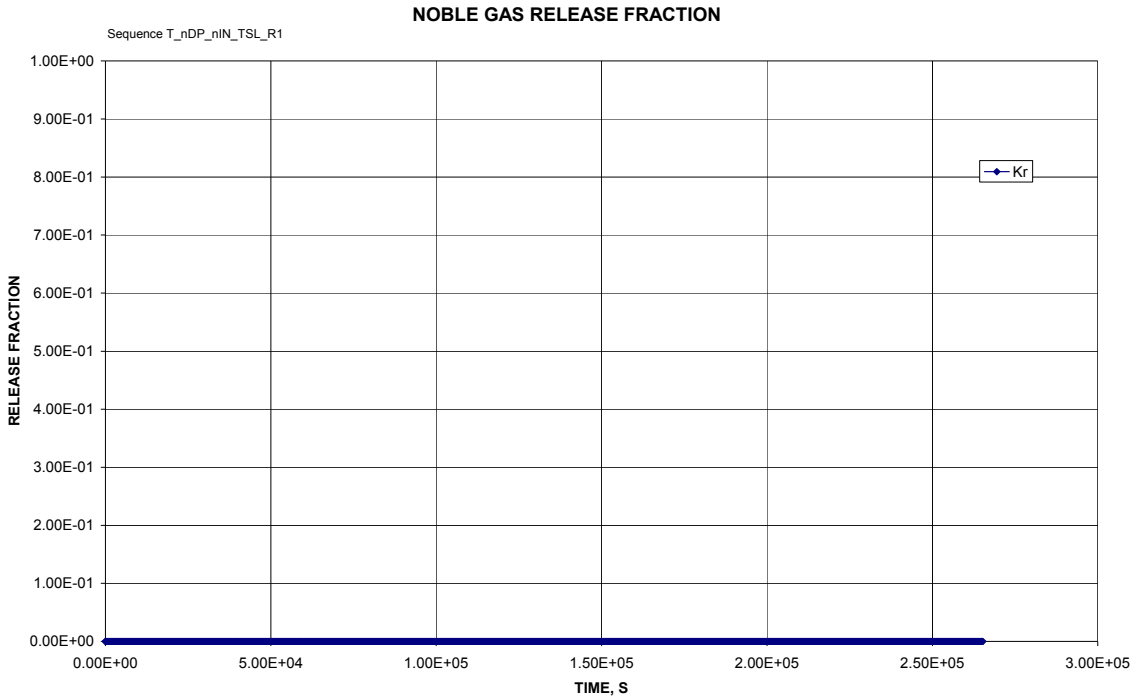

Figure 8B-4e. CDIII TSL Noble Gas Release Fraction

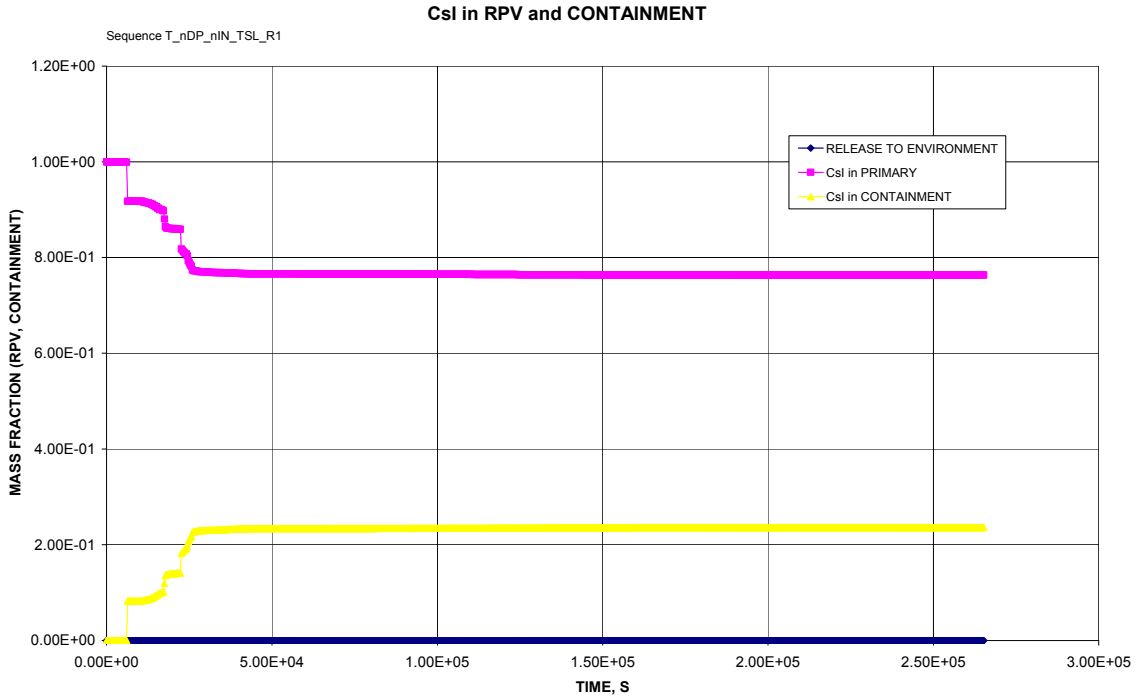

Figure 8B-4f. CDIII TSL CsI Distribution

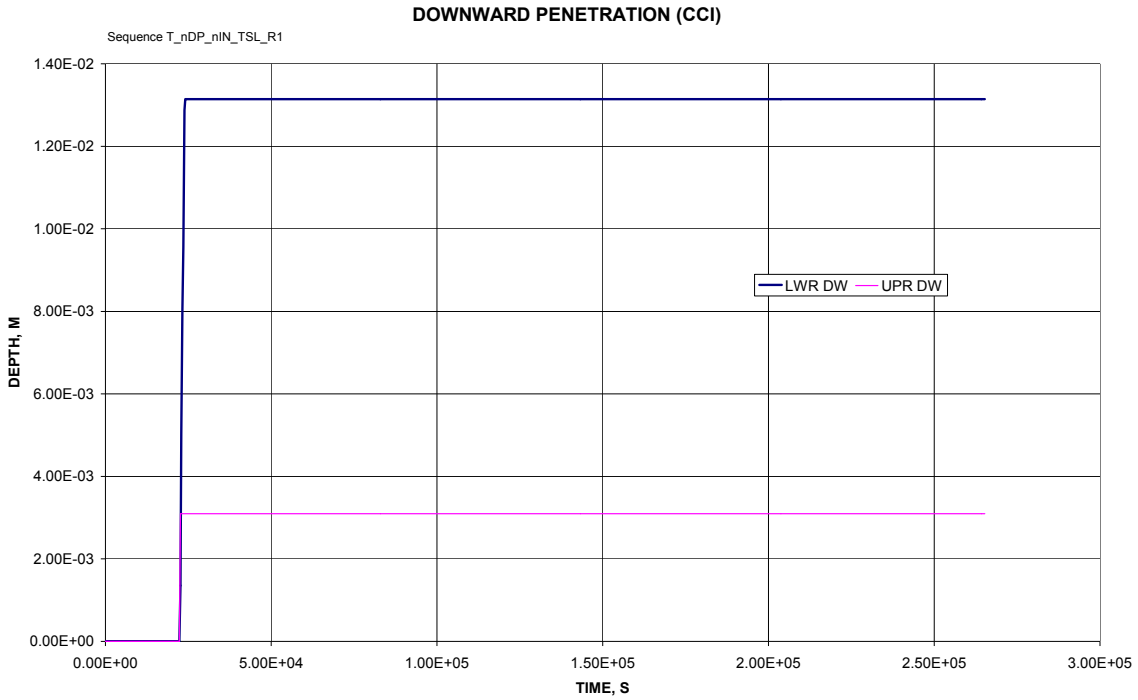

Figure 8B-4g. CDIII TSL Downward CCI Penetration

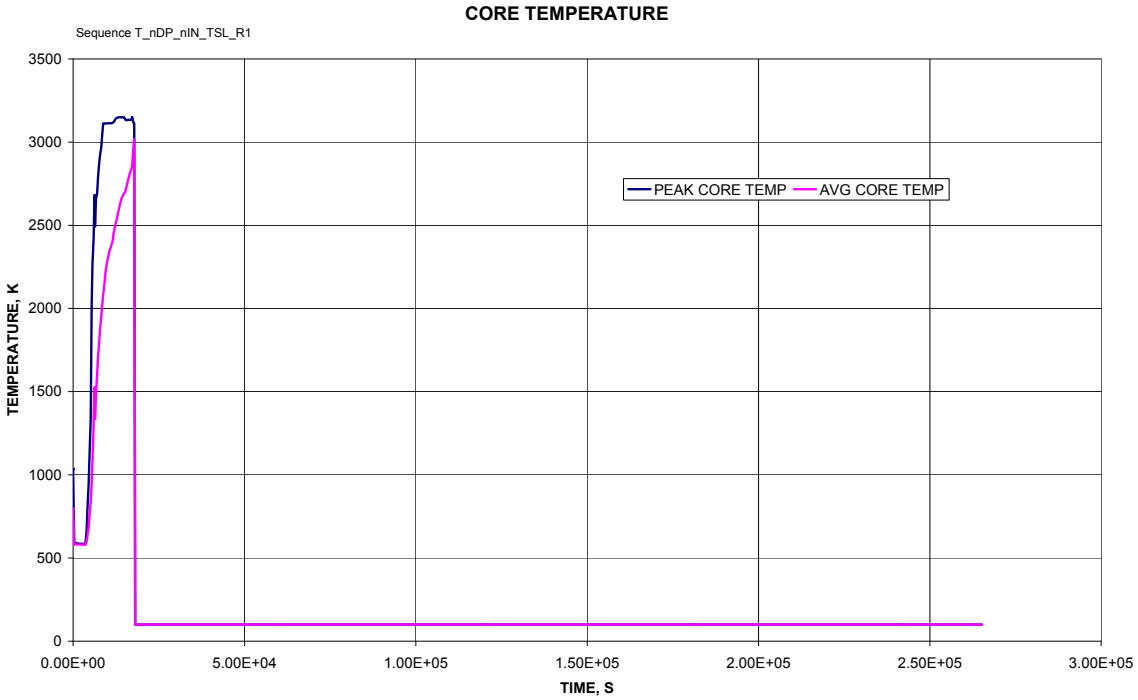

Figure 8B-4h. CDIII TSL Core Temperature

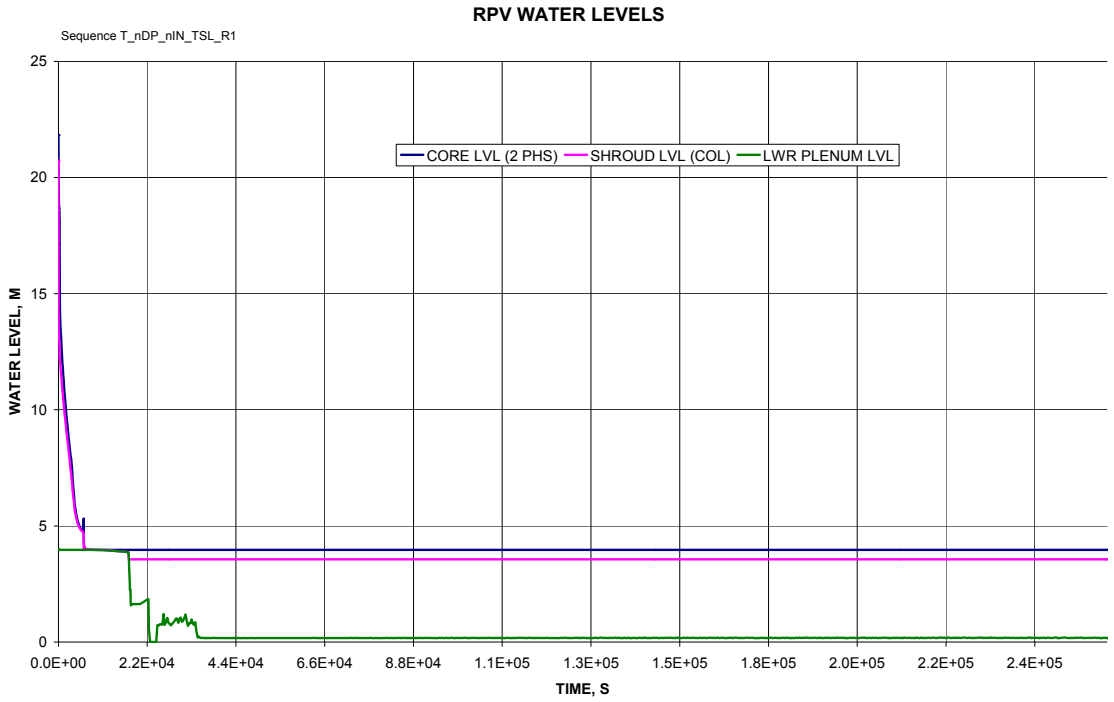

Figure 8B-4i. CDIII TSL RPV Water Levels

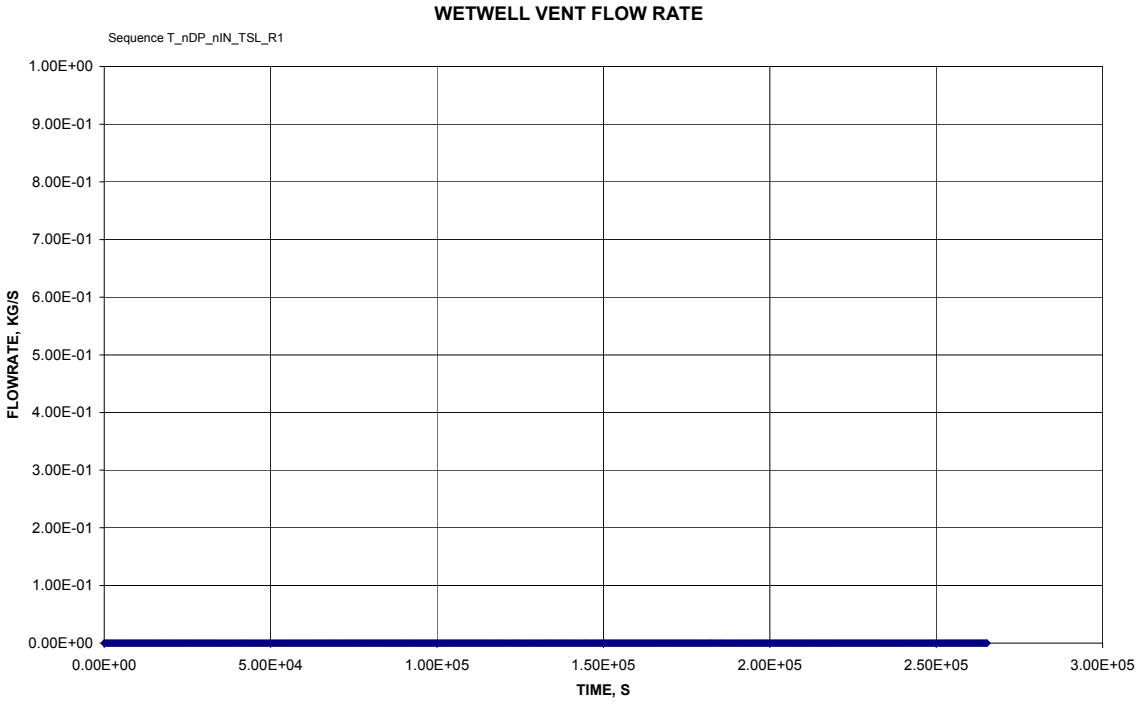

Figure 8B-4j. CDIII TSL Wetwell Vent Flow Rate

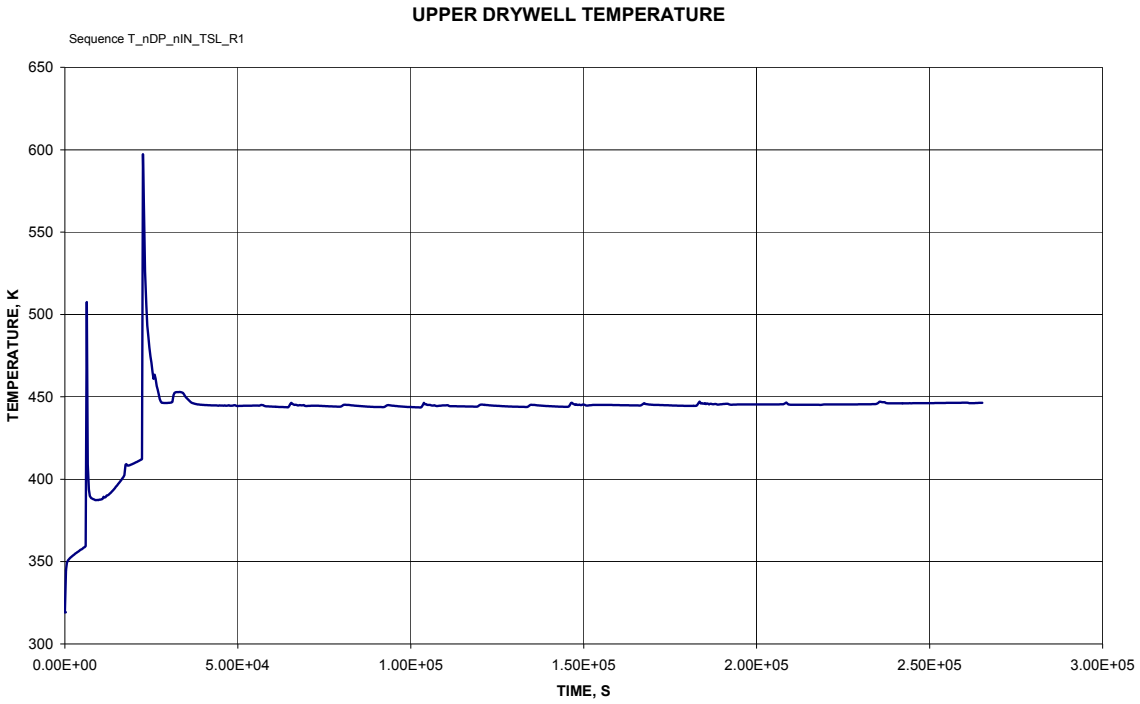

Figure 8B-4k. CDIII TSL Upper Drywell Gas Temperature

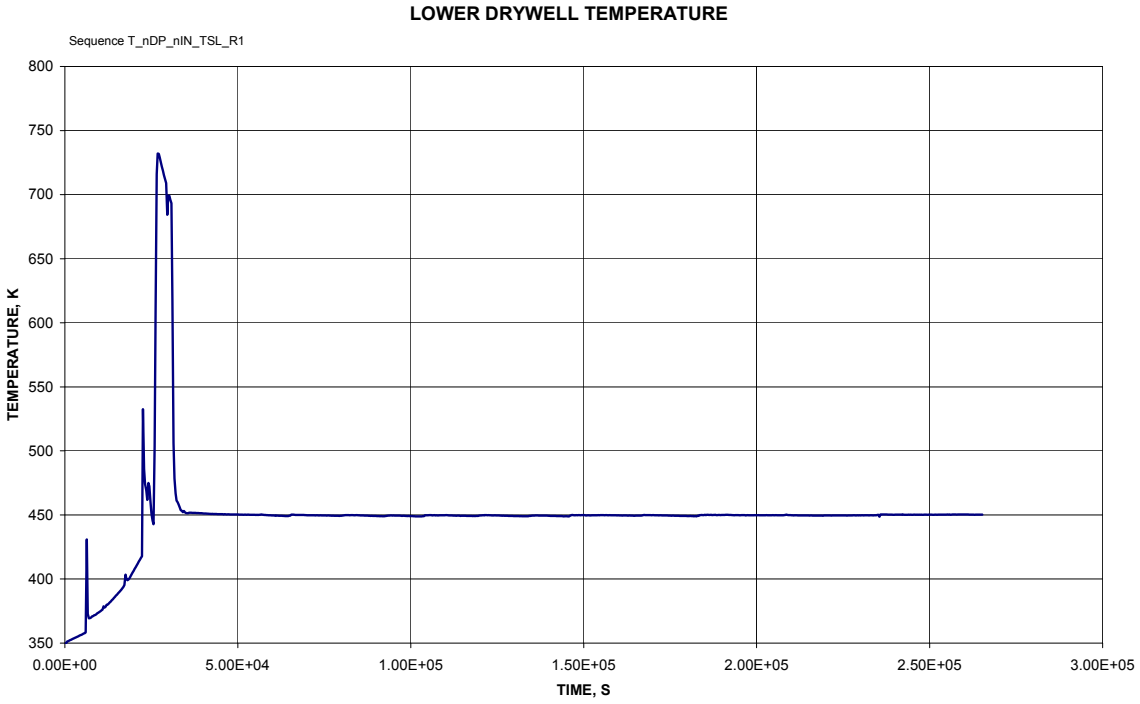

Figure 8B-4l. CDIII TSL Lower Drywell Gas Temperature

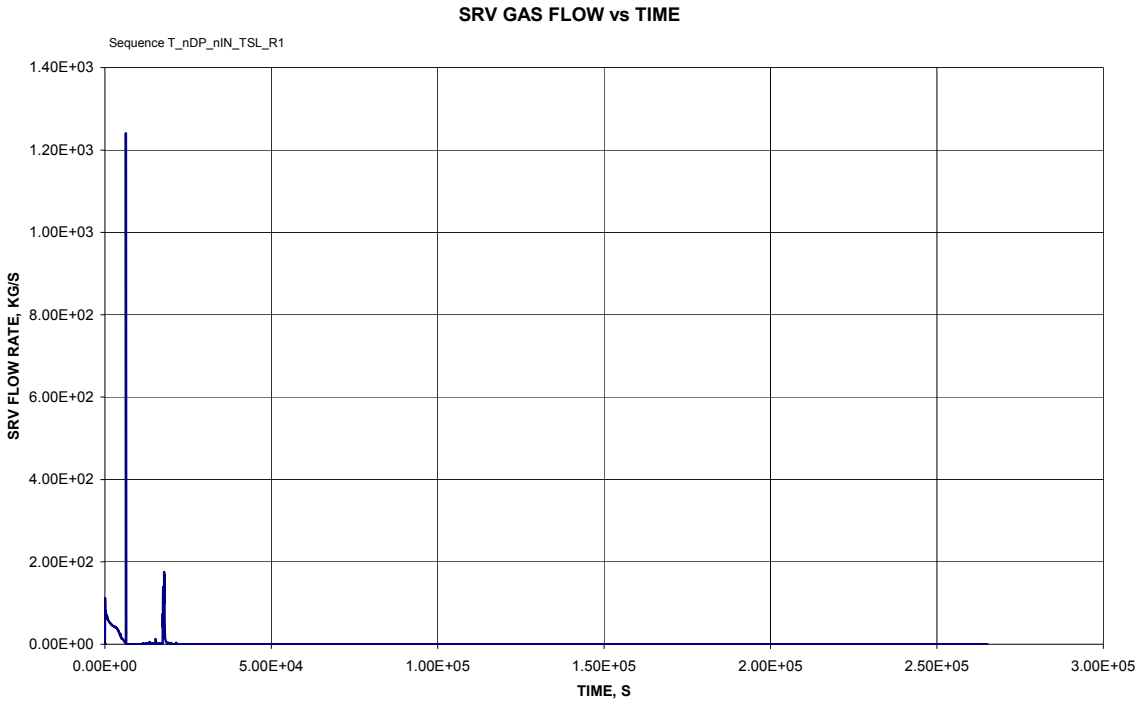

Figure 8B-4m. CDIII TSL SRV Gas Flow Rate

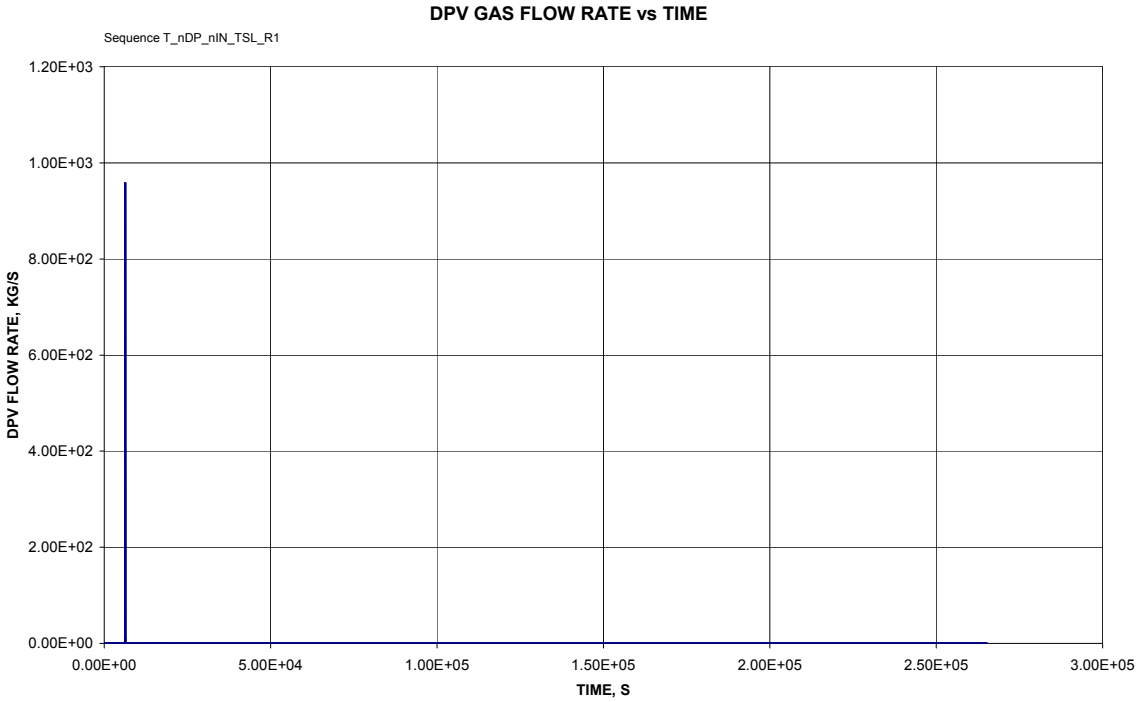

Figure 8B-4n. CDIII TSL DPV Gas Flow Rate

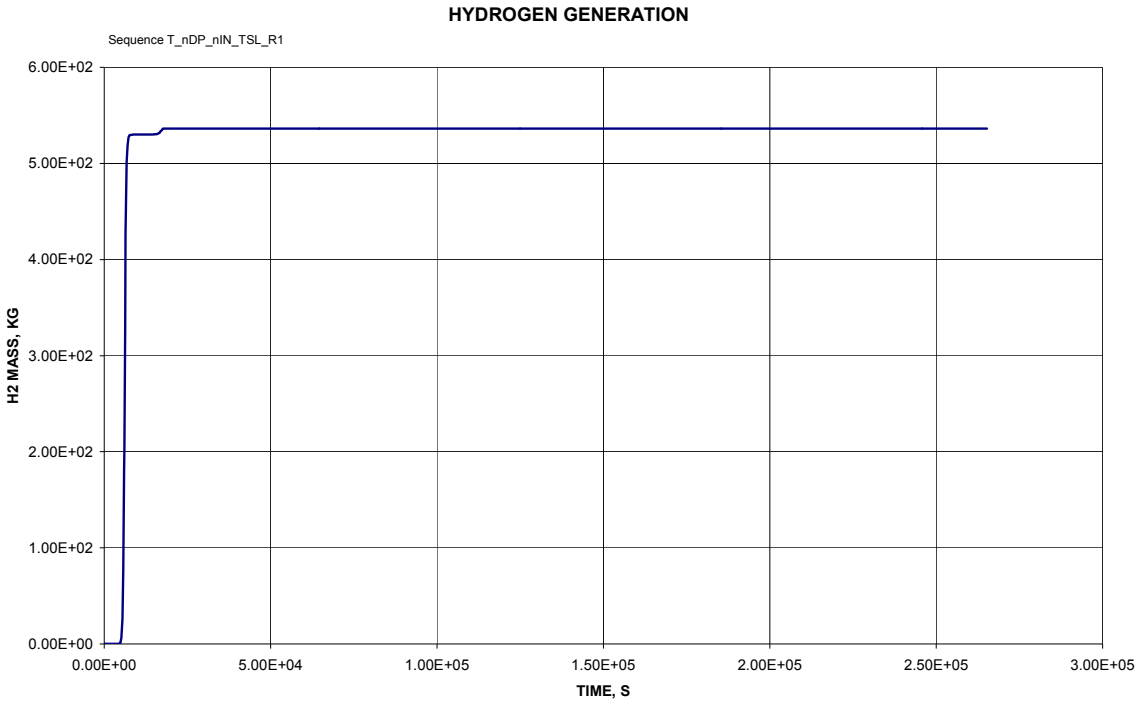

Figure 8B-4o. CDIII TSL Hydrogen Generation

8B.5 – Class III Representative Sequence (T_nDP_nIN_nCHR_FR)

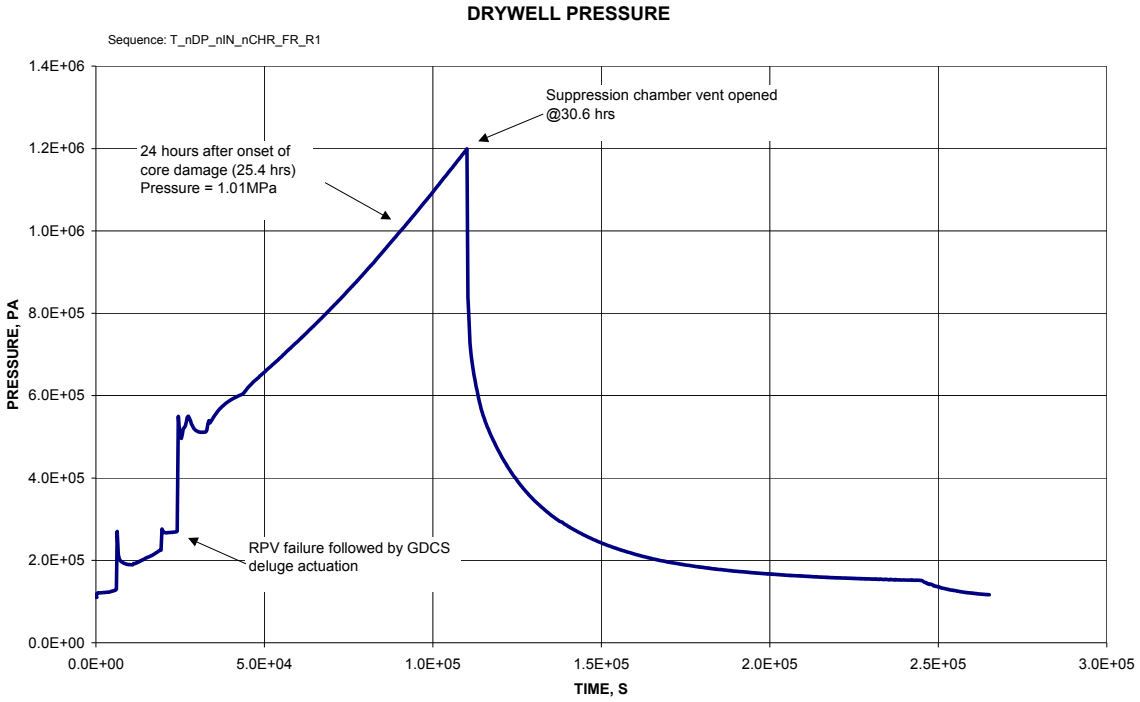

Figure 8B-5a. CDIII FR Drywell Pressure

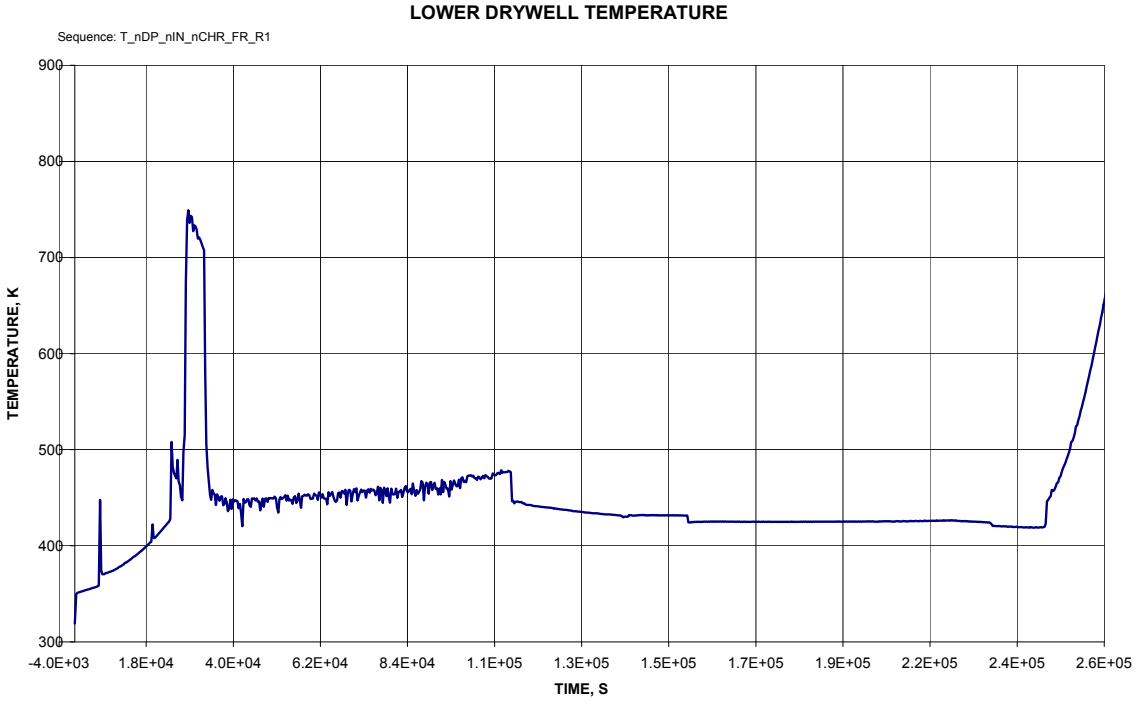

Figure 8B-5b. CDIII FR Lower Drywell Temperature

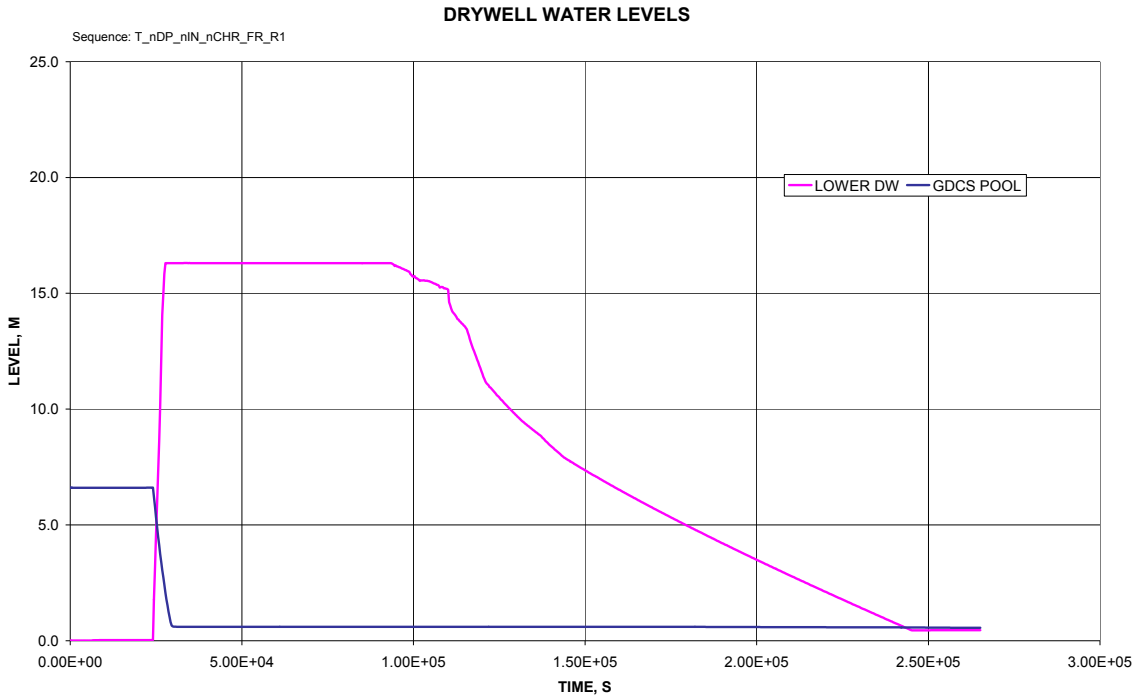

Figure 8B-5c. CDIII FR Drywell Water Levels

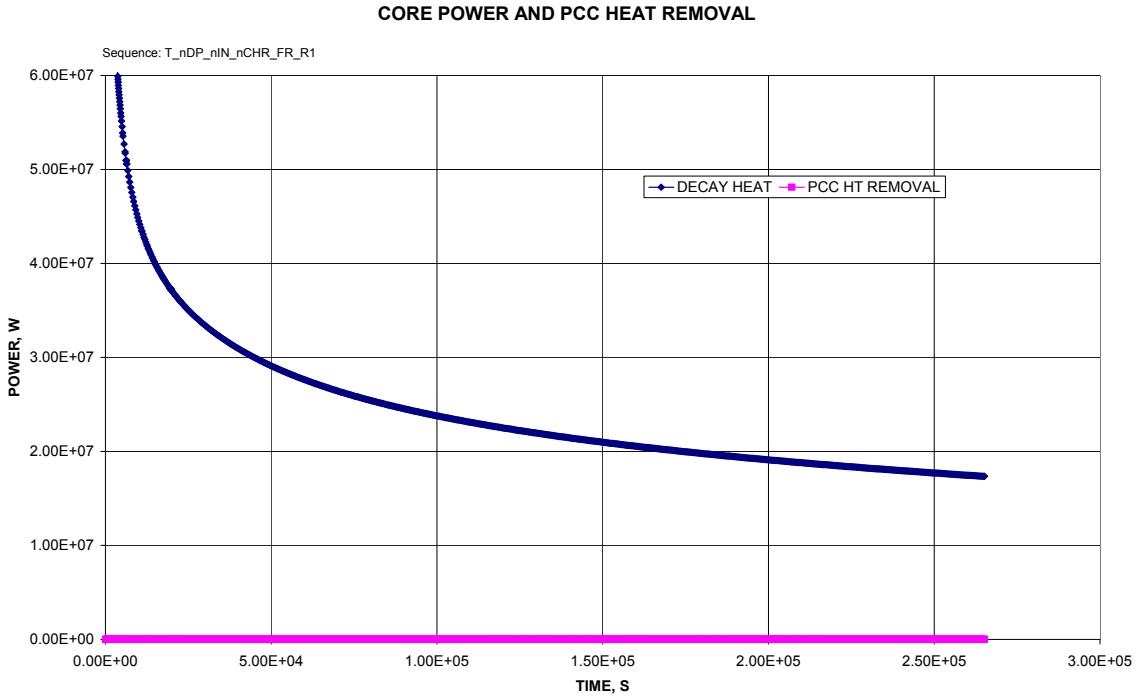

Figure 8B-5d. CDIII FR Core Power and PCCS Heat Removal

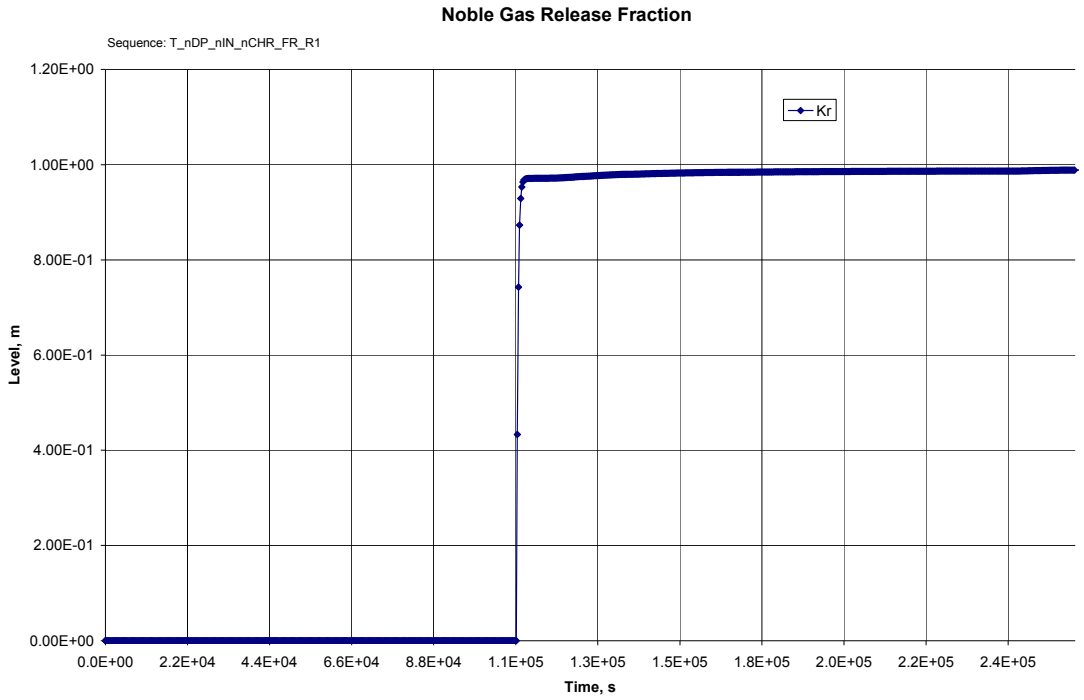

Figure 8B-5e. CDIII FR Noble Gas Release Fraction

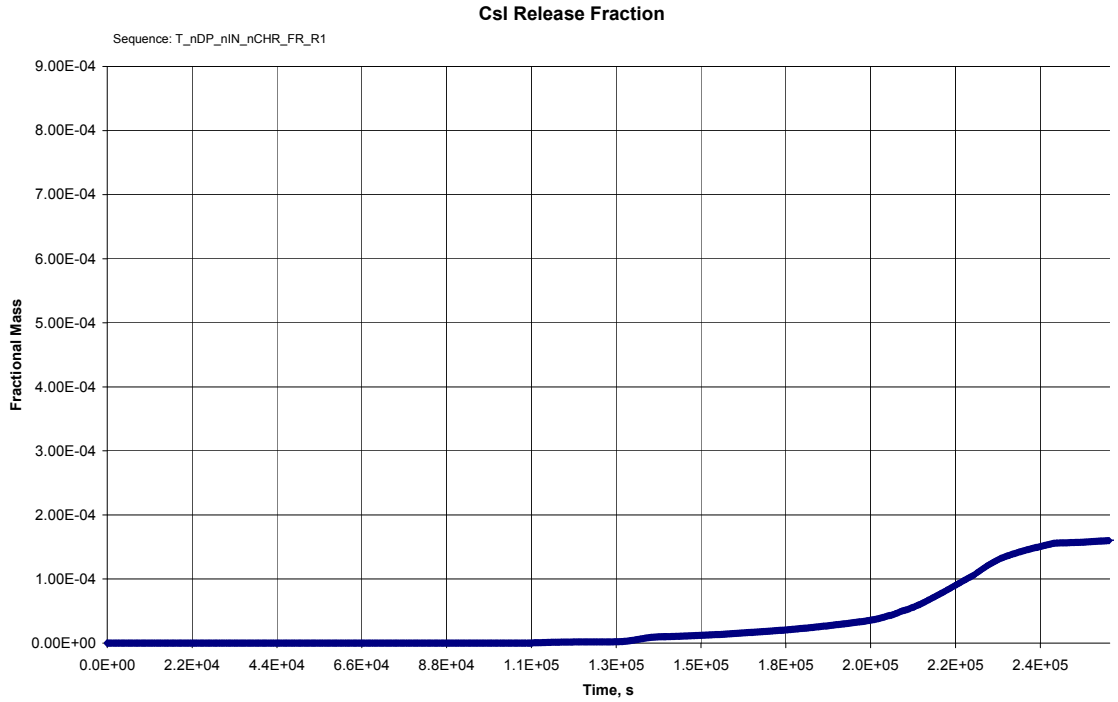

Figure 8B-5f. CDIII FR CsI Release Fraction

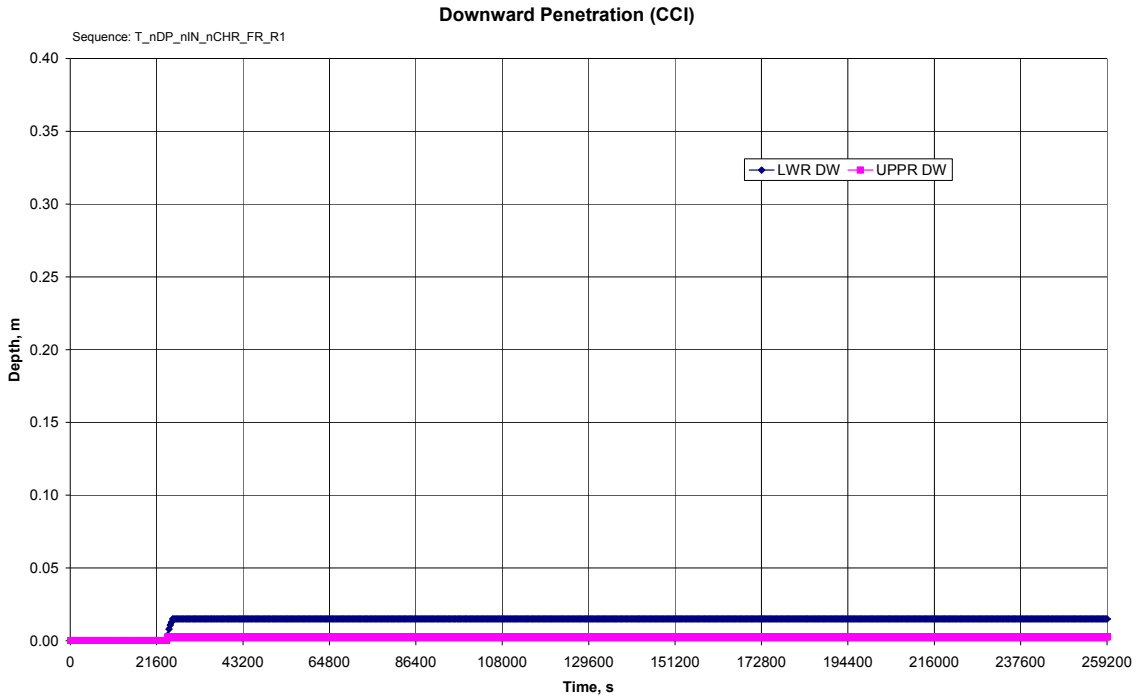

Figure 8B-5g. CDIII FR CCI Penetration

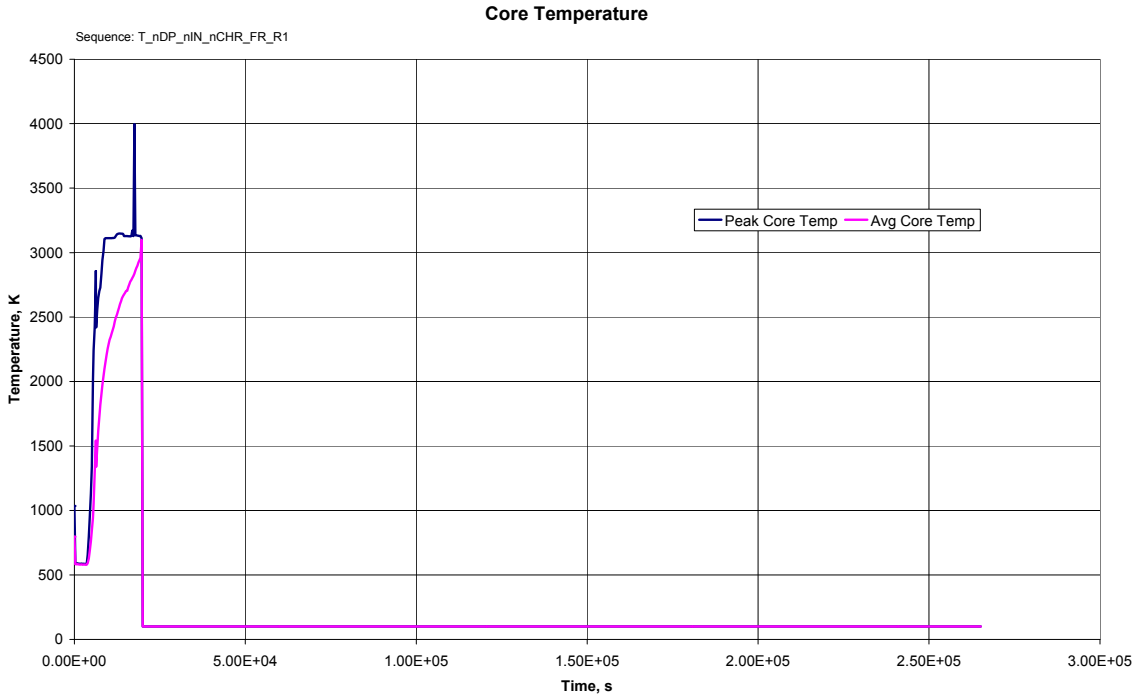

Figure 8B-5h. CDIII FR Core Temperature

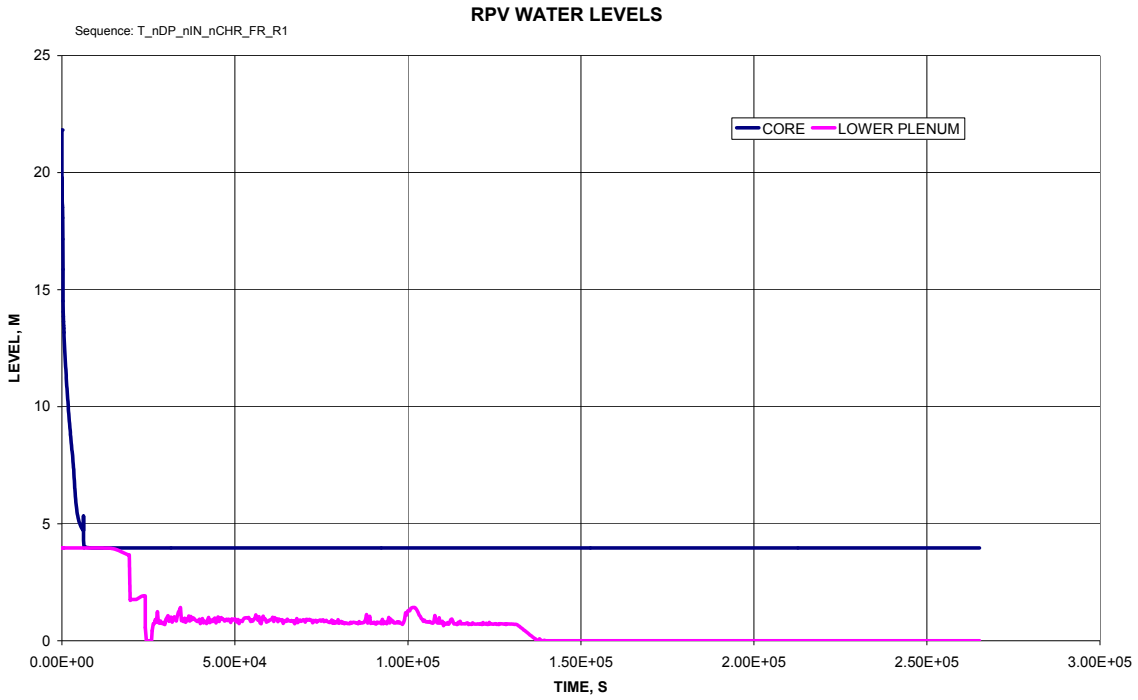

Figure 8B-5i. CDIII FR RPV Water Levels

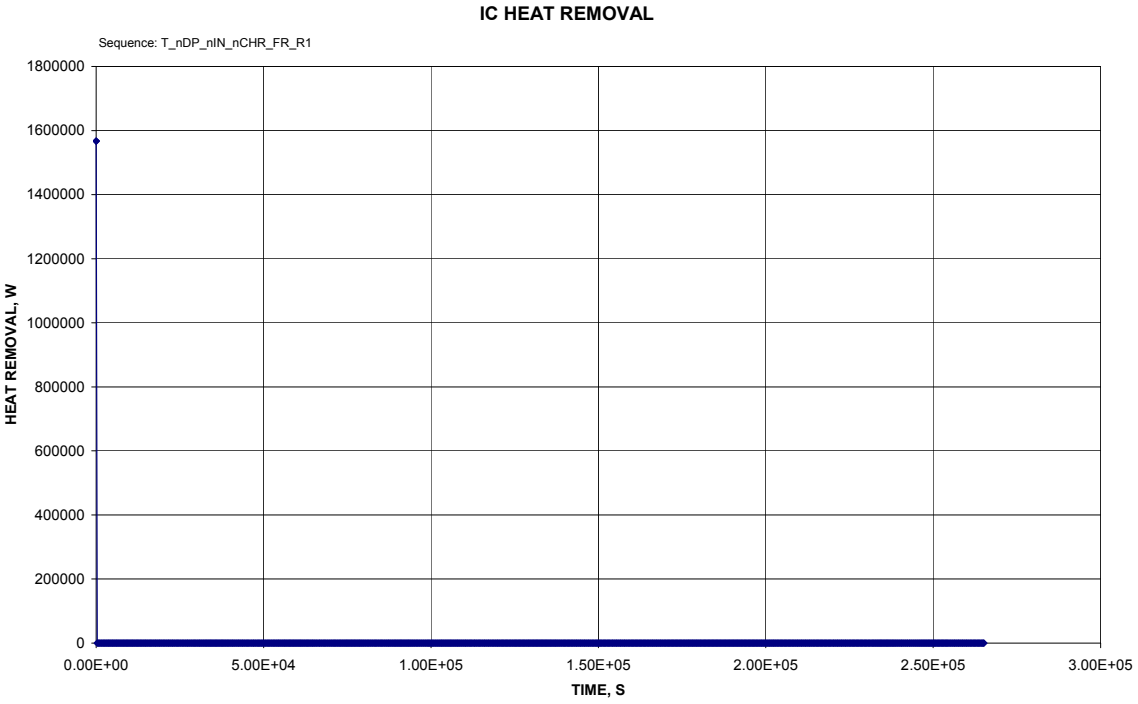

Figure 8B-5j. CDIII FR ICS Heat Removal

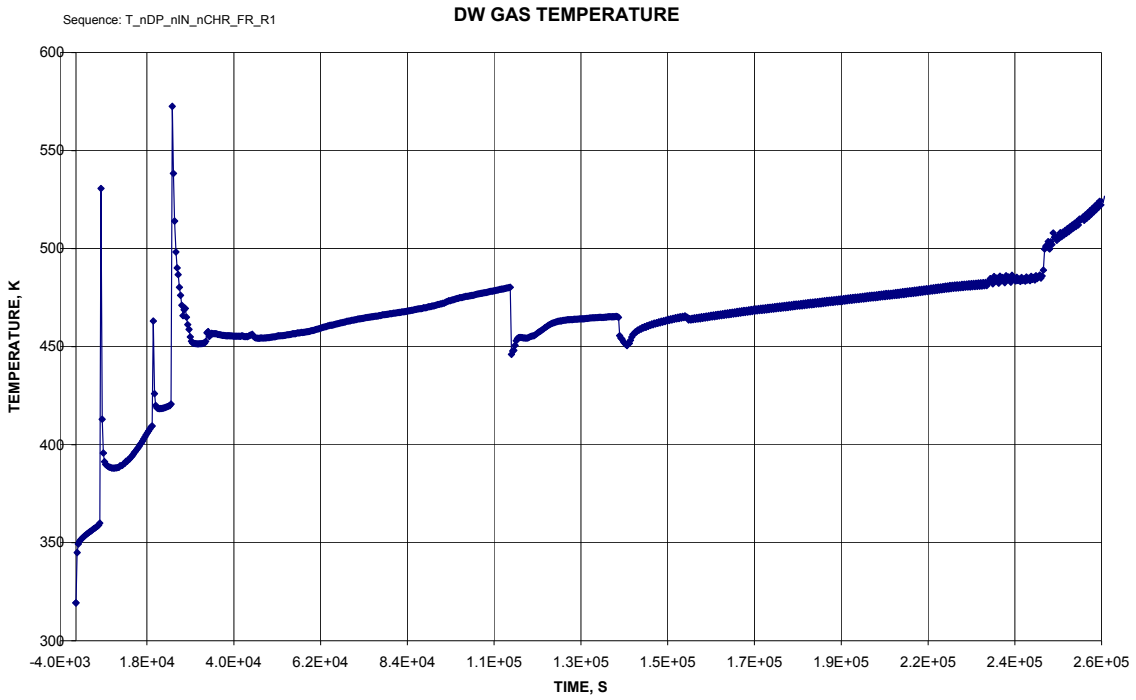

Figure 8B-5k. CDIII FR Drywell Temperature

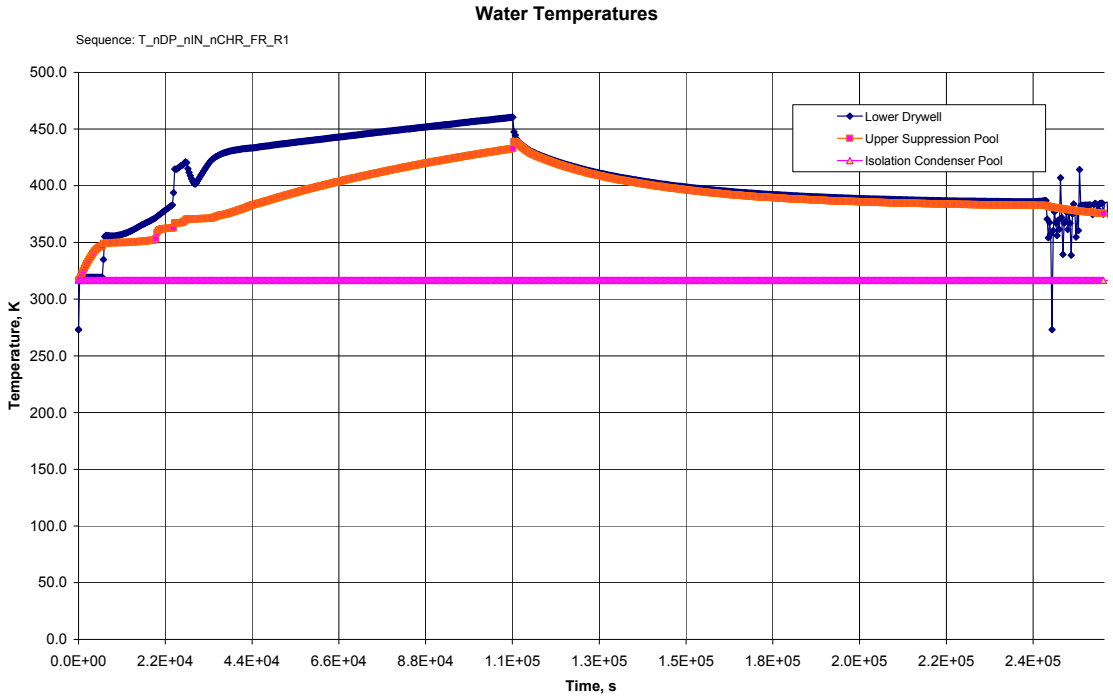

Figure 8B-5l. CDIII FR Water Temperatures

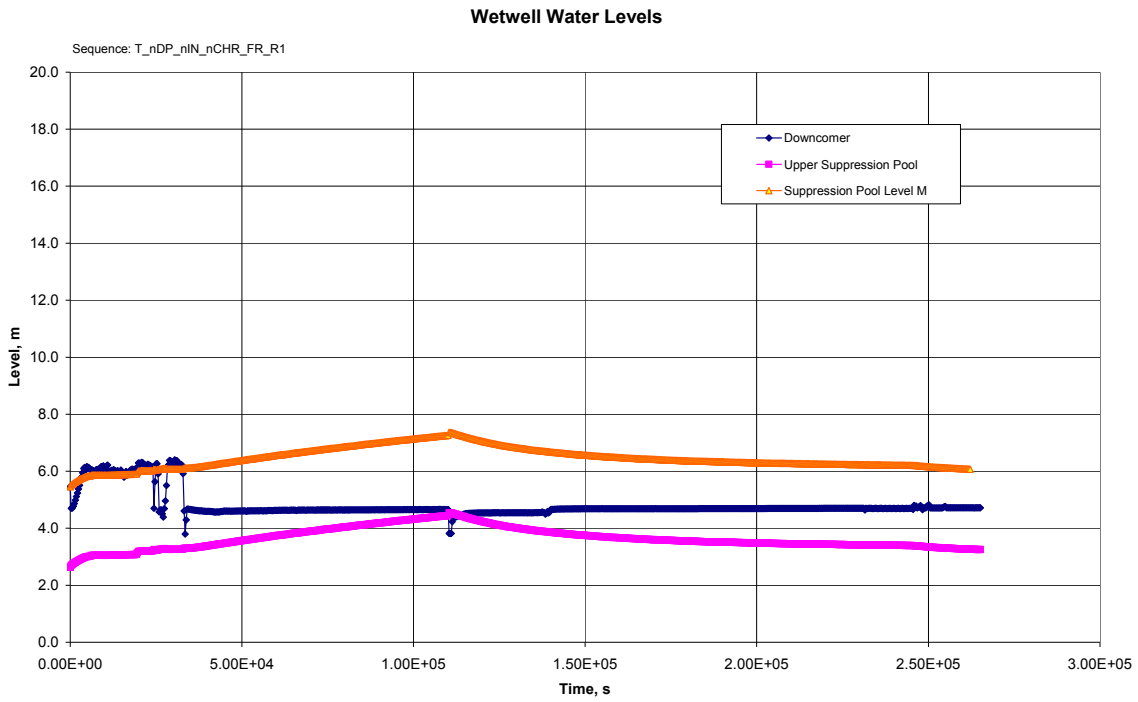

Figure 8B-5m. CDIII FR Wetwell Water Levels

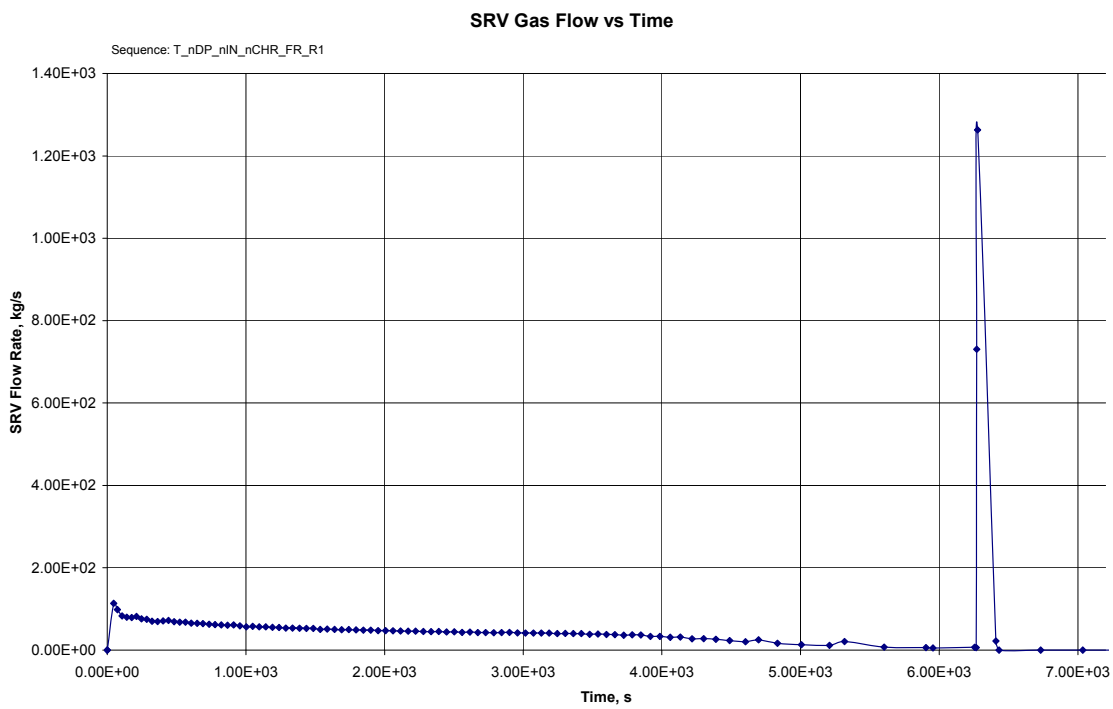

Figure 8B-5n. CDIII FR SRV Flow Rate

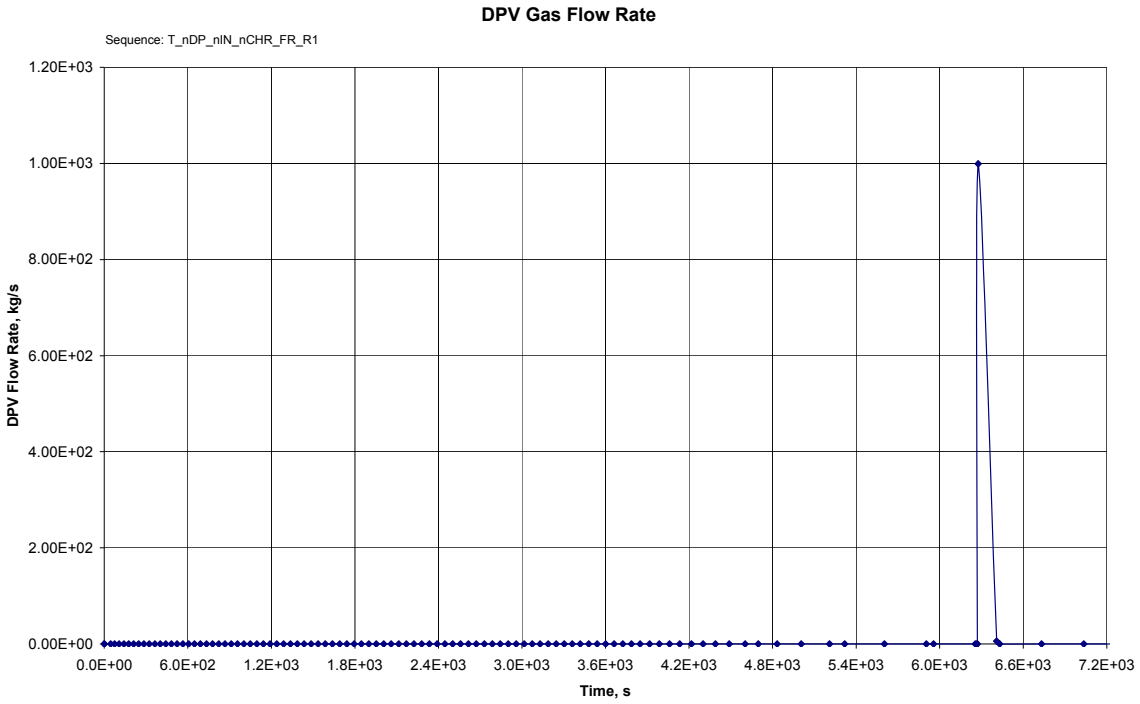

Figure 8B-5o. CDIII FR DPV Flow Rate

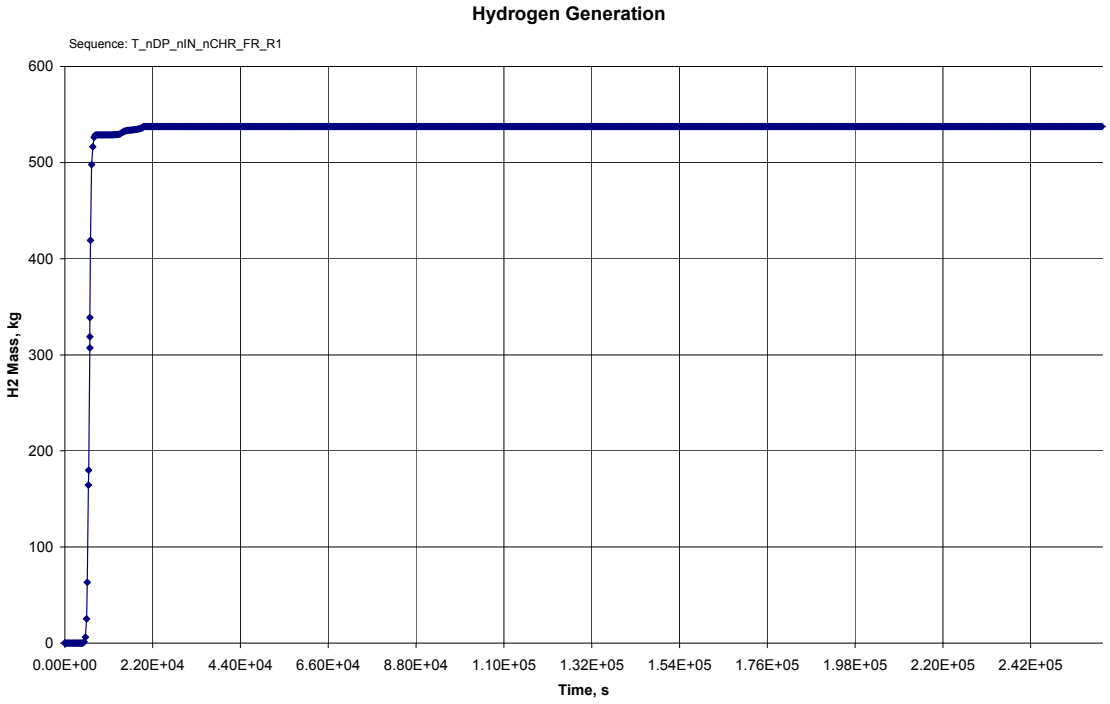

Figure 8B-5p. CDIII FR Core Hydrogen Generation

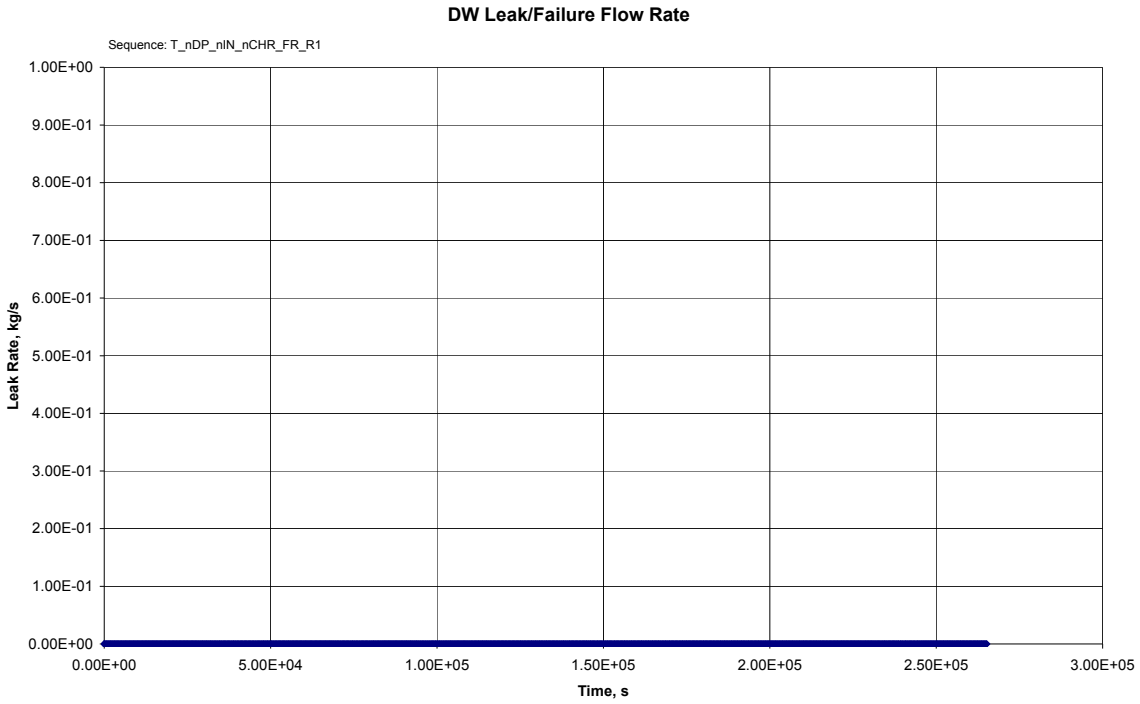

Figure 8B-5q. CDIII FR Drywell Leak/Failure Flow Rate

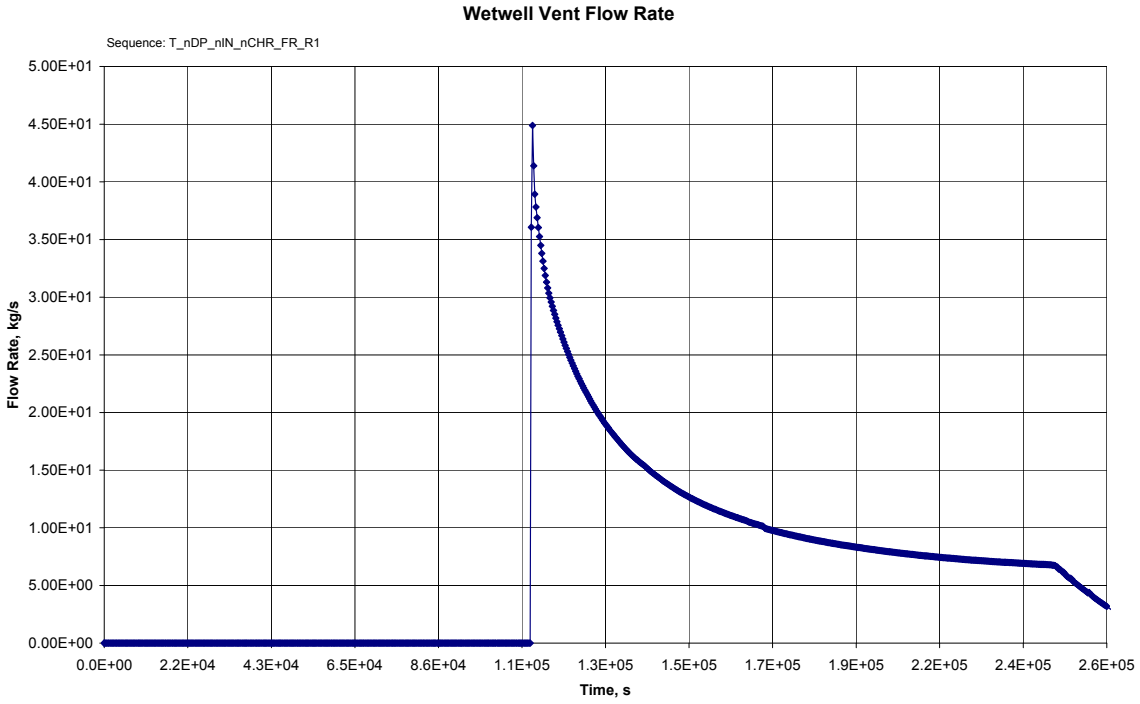

Figure 8B-5r. CDIII FR Wetwell Vent Flow Rate

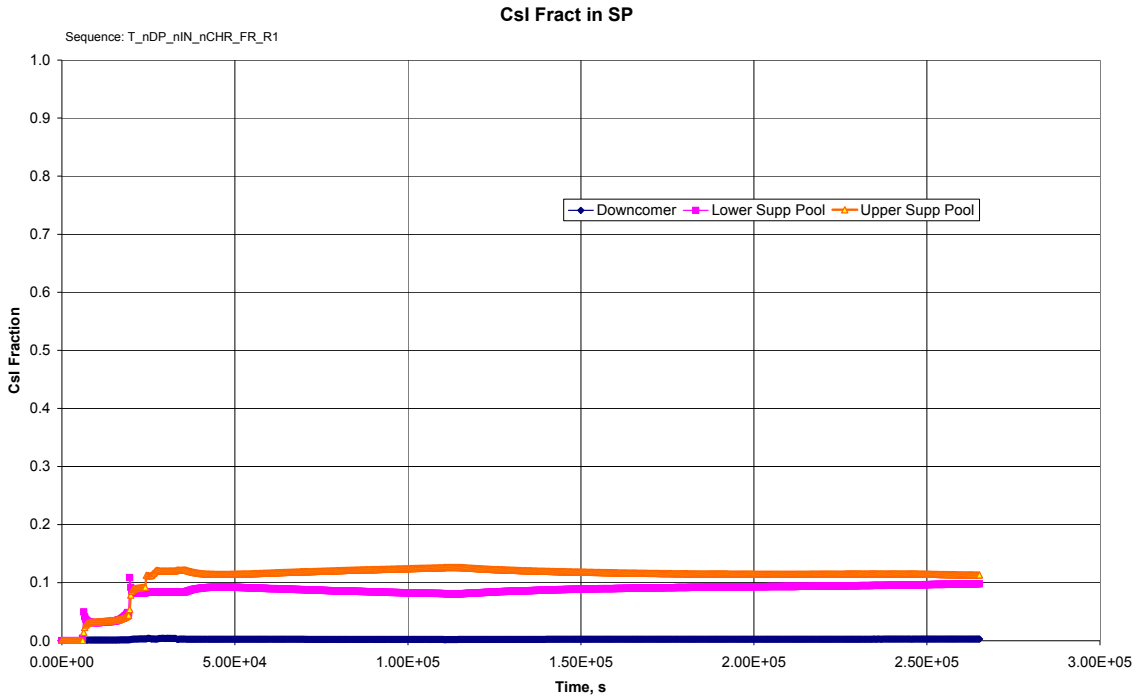

Figure 8B-5s. CDIII FR Suppression Pool CsI Fraction

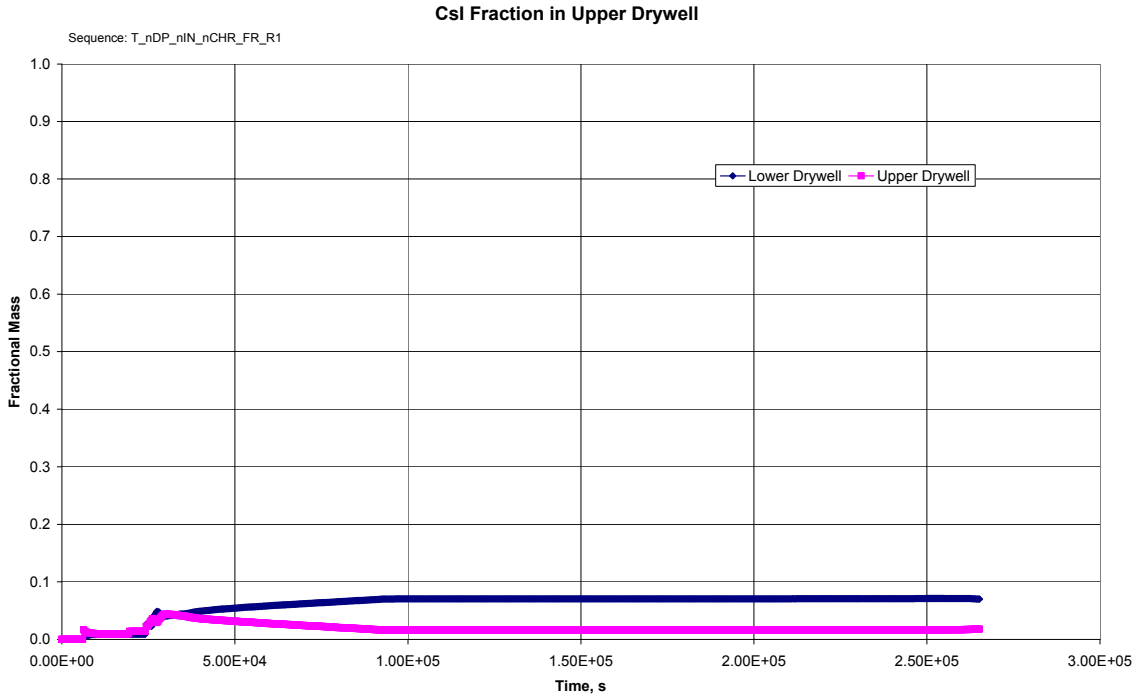

Figure 8B-5t. CDIII FR Drywell CsI Fraction

8B.6 – Class IV Representative Sequence (T_AT_nIN_TSL)

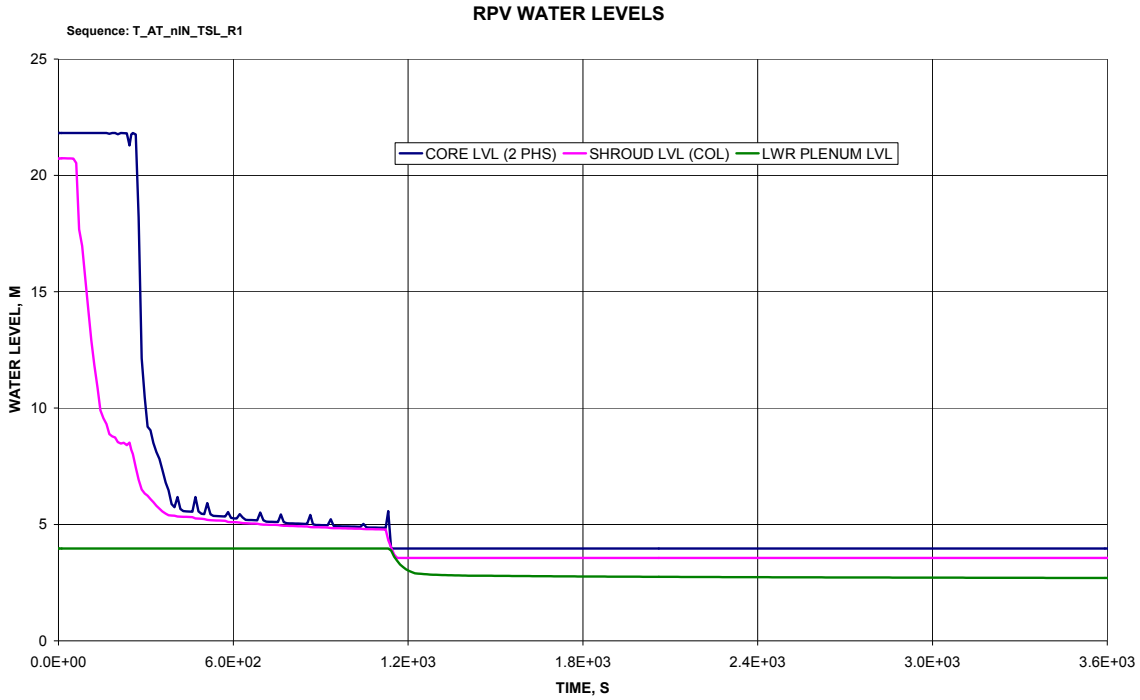

Figure 8B-6a. CDIV TSL RPV Water Levels

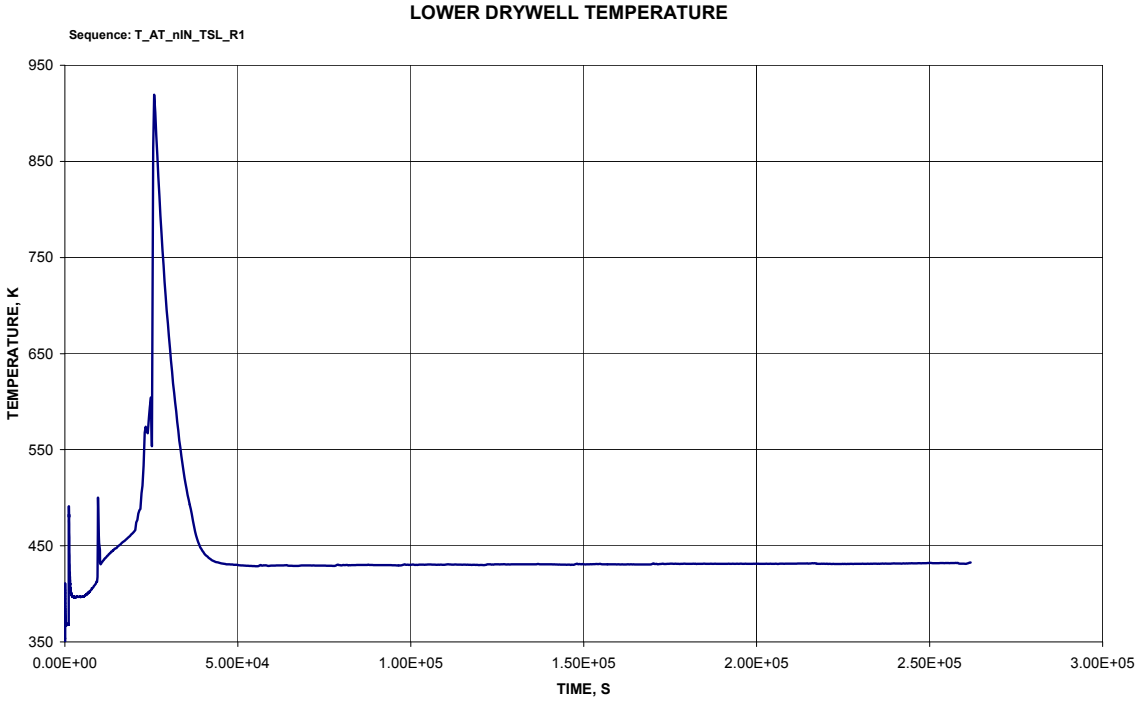

Figure 8B-6b. CDIV TSL Lower Drywell Temperature

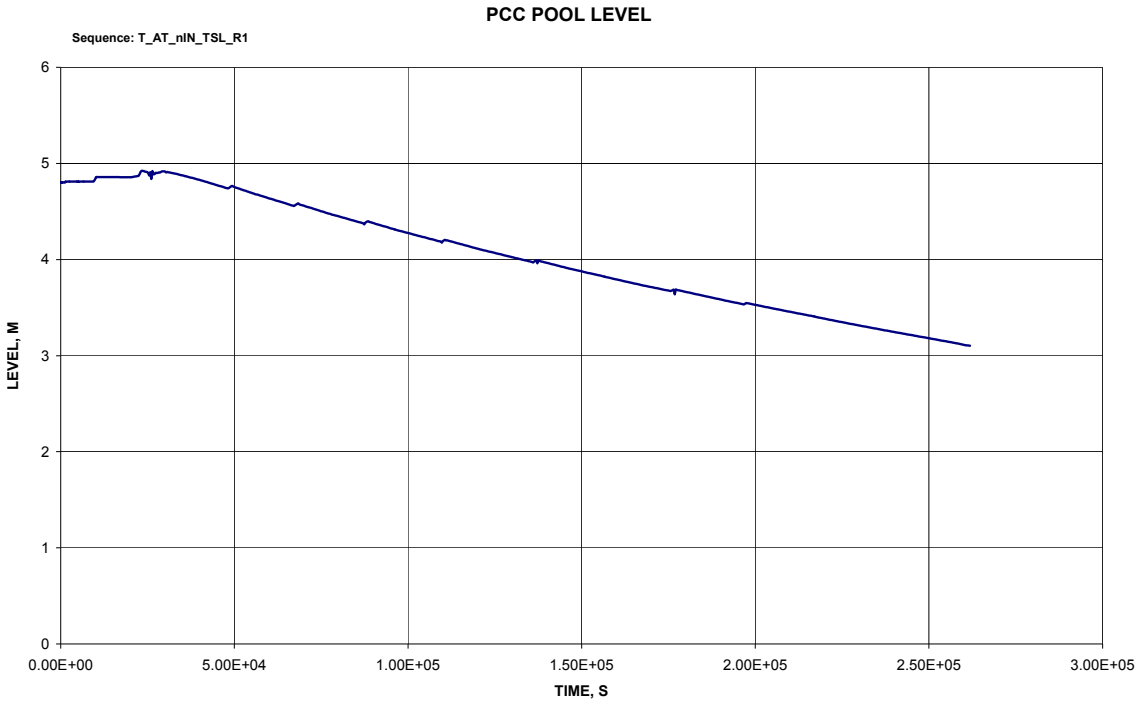

Figure 8B-6c. CDIV TSL PCCS Pool Level

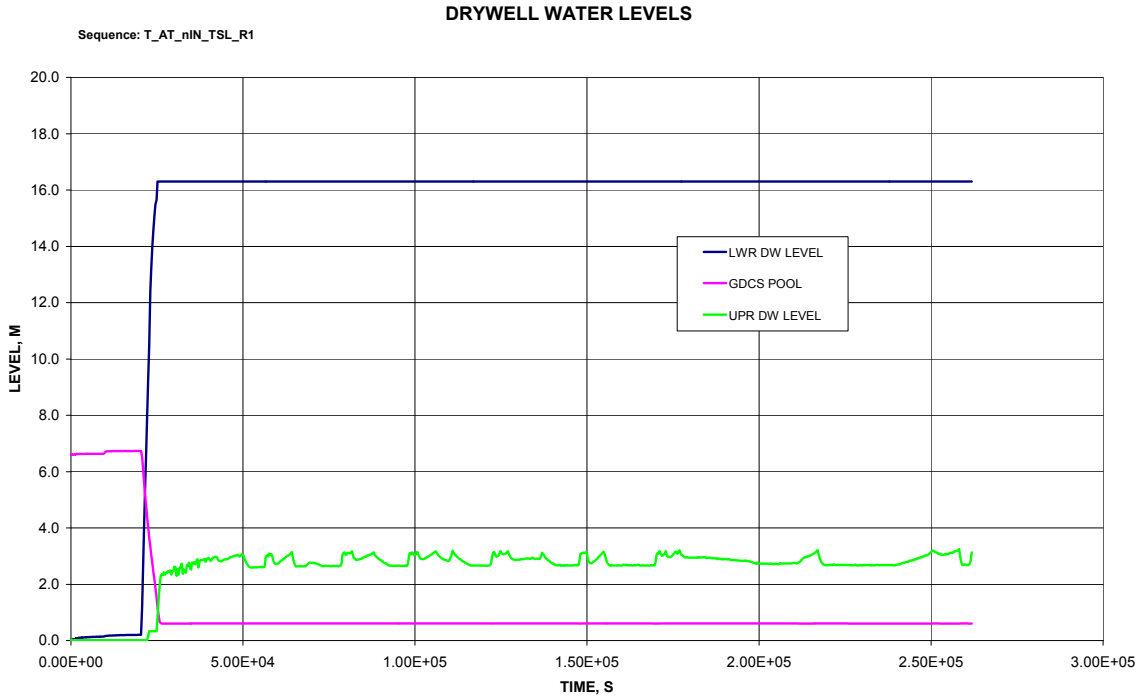

Figure 8B-6d. CDIV TSL Drywell Water Levels

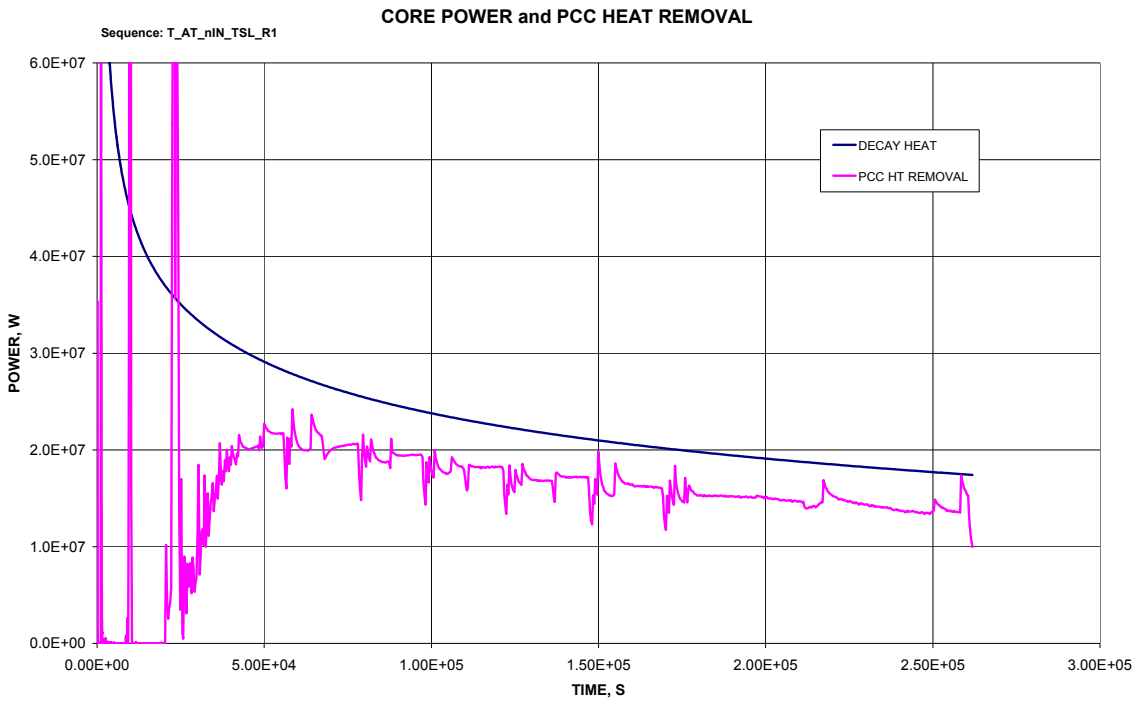

Figure 8B-6e. CDIV TSL Core Power and PCCS Heat Removal

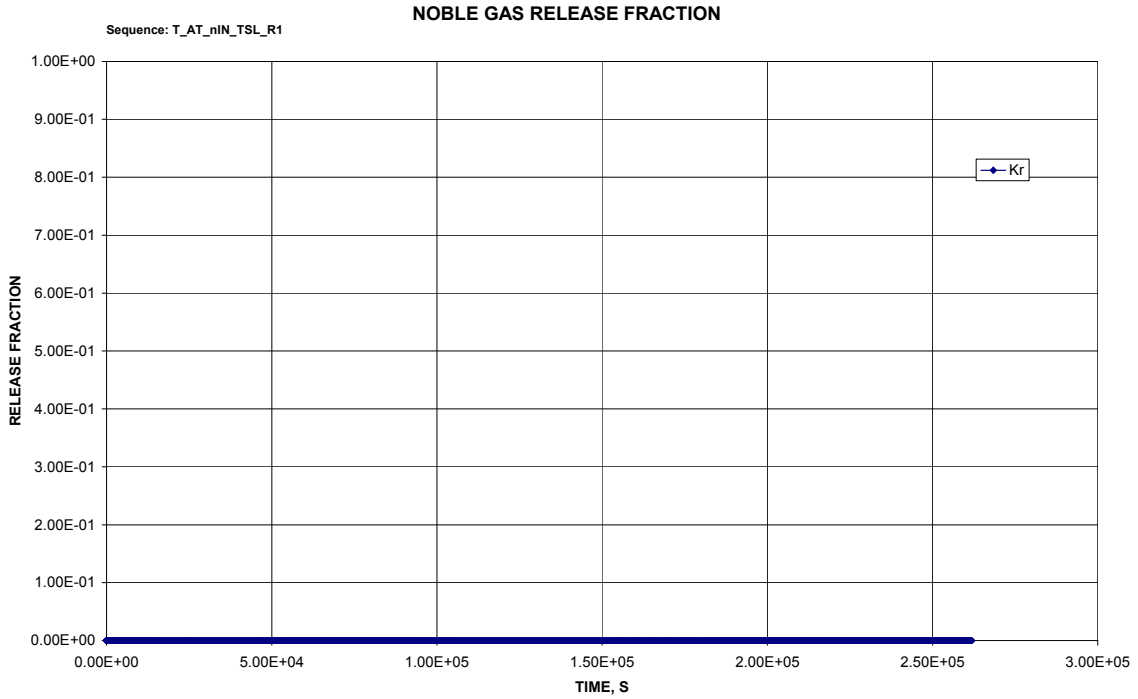

Figure 8B-6f. CDIV TSL Noble Gas Release Fraction

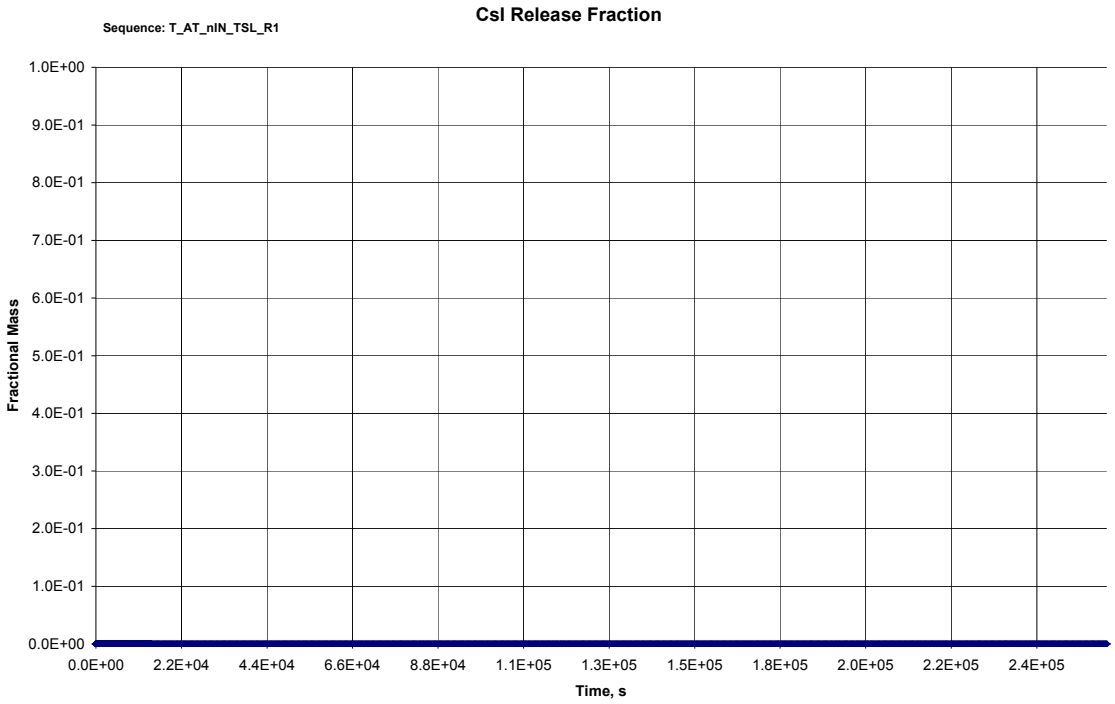

Figure 8B-6g. CDIV TSL CsI Release Fraction

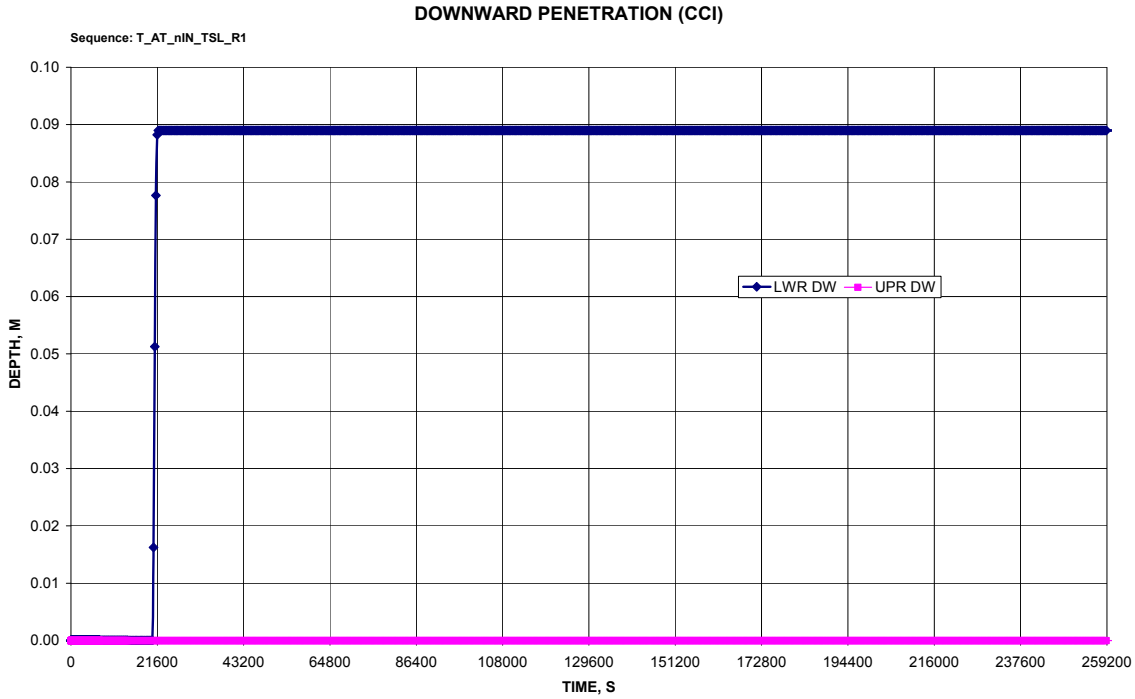

Figure 8B-6h. CDIV TSL CCI Downward Penetration

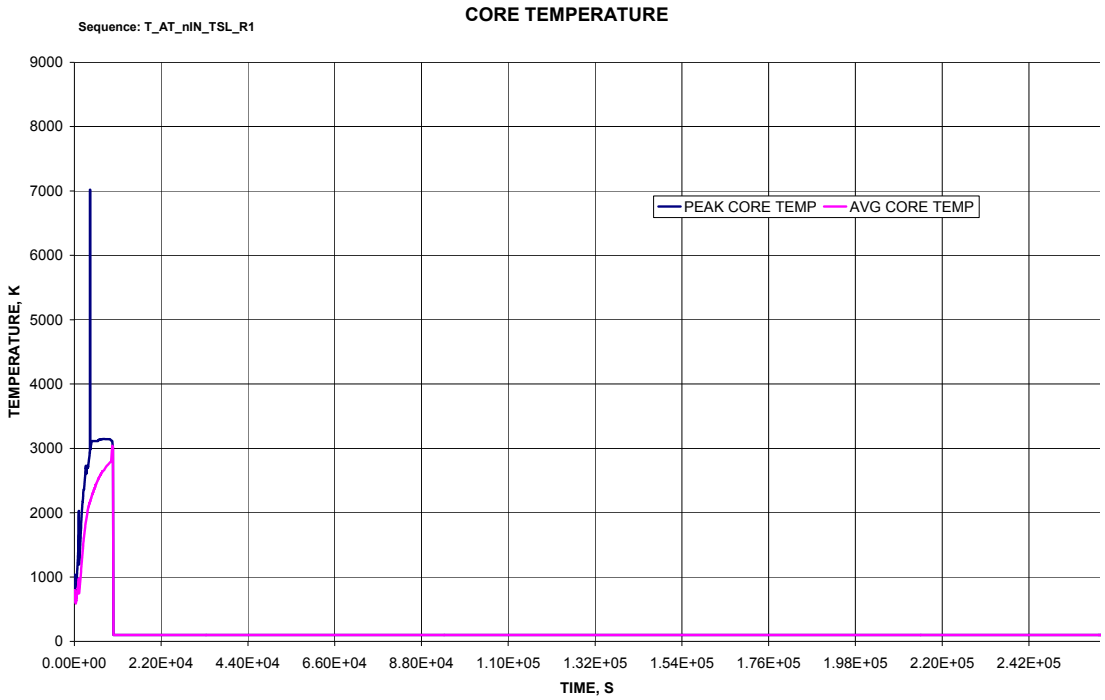

Figure 8B-6i. CDIV TSL Core Temperature

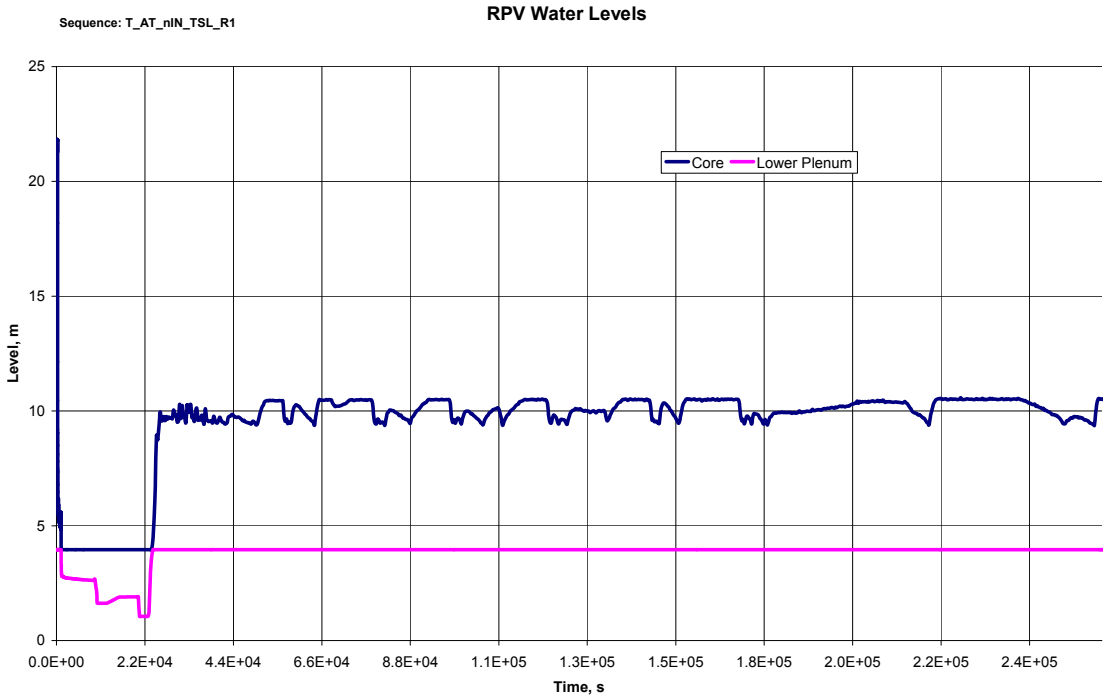

Figure 8B-6j. CDIV TSL RPV Water Levels

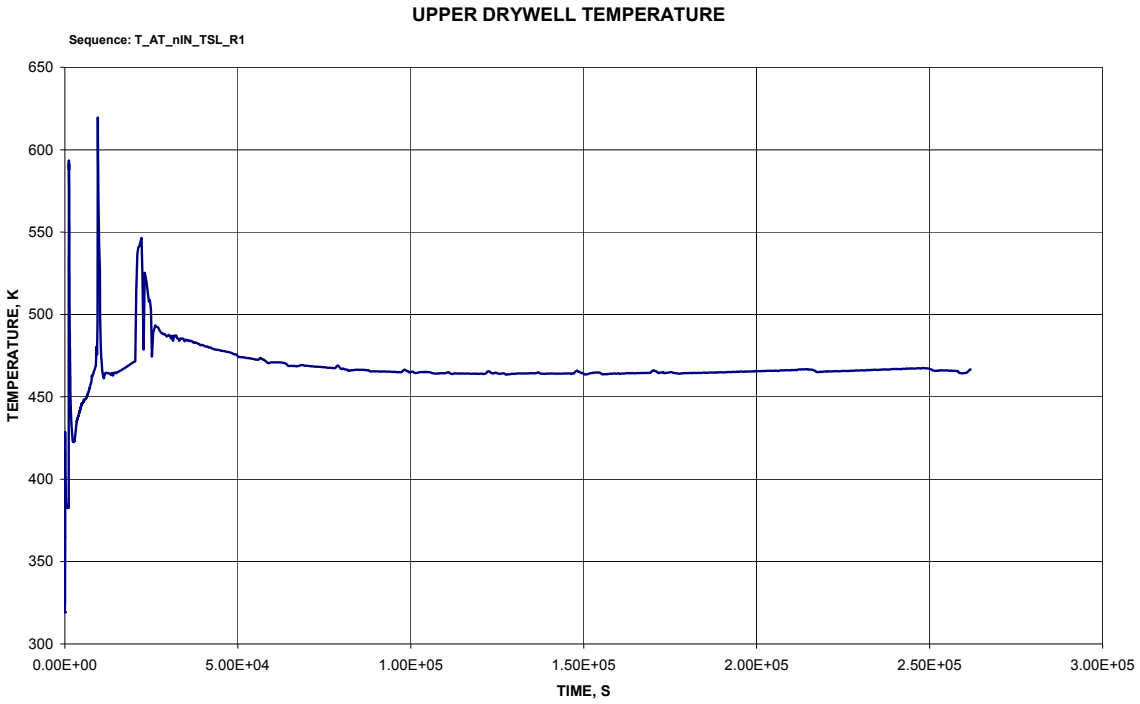

Figure 8B-6k. CDIV TSL Upper Drywell Temperature

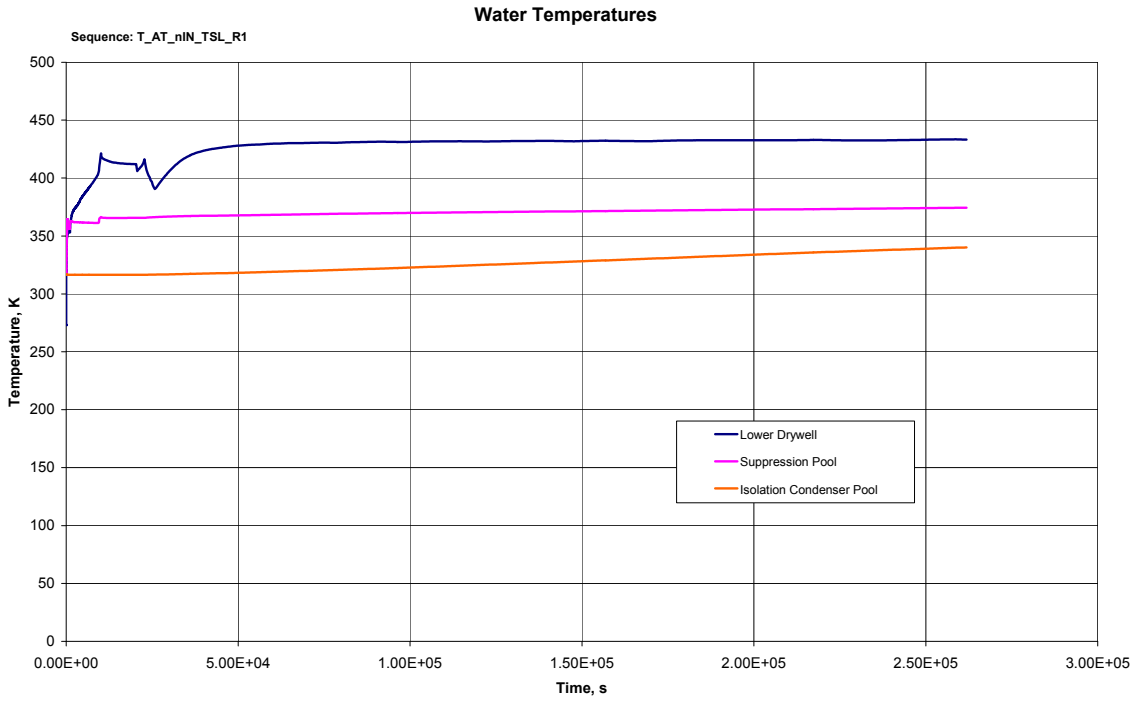

Figure 8B-6l. CDIV TSL Water Temperatures

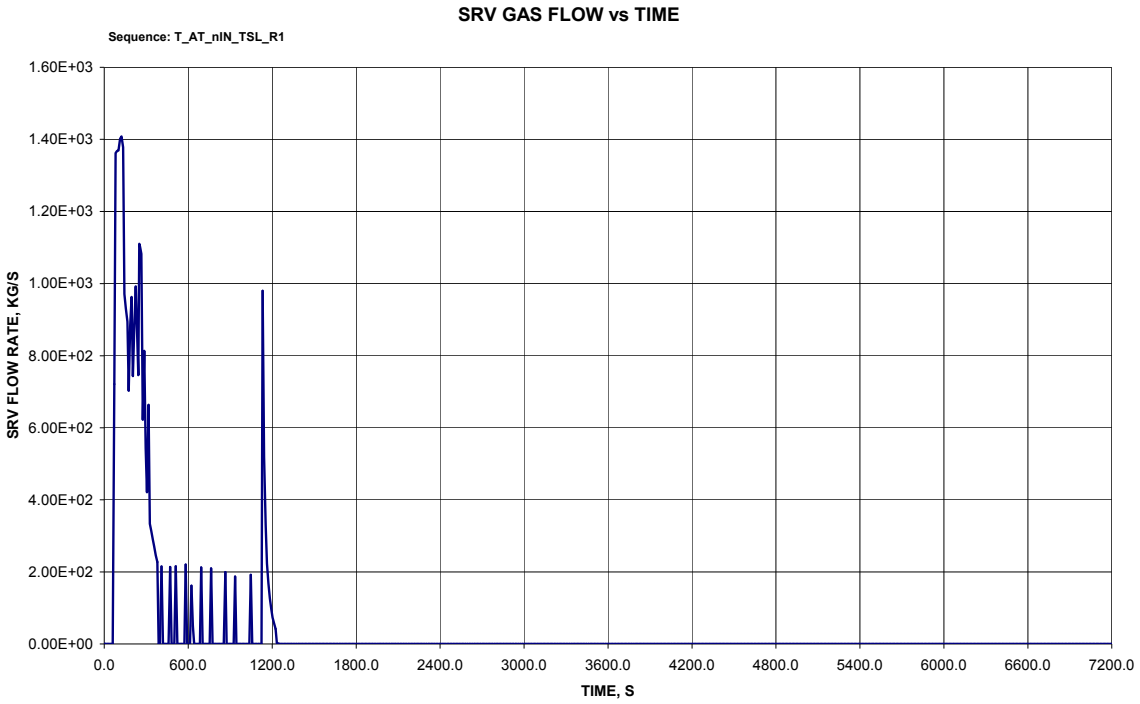

Figure 8B-6m. CDIV TSL SRV Flow Rate

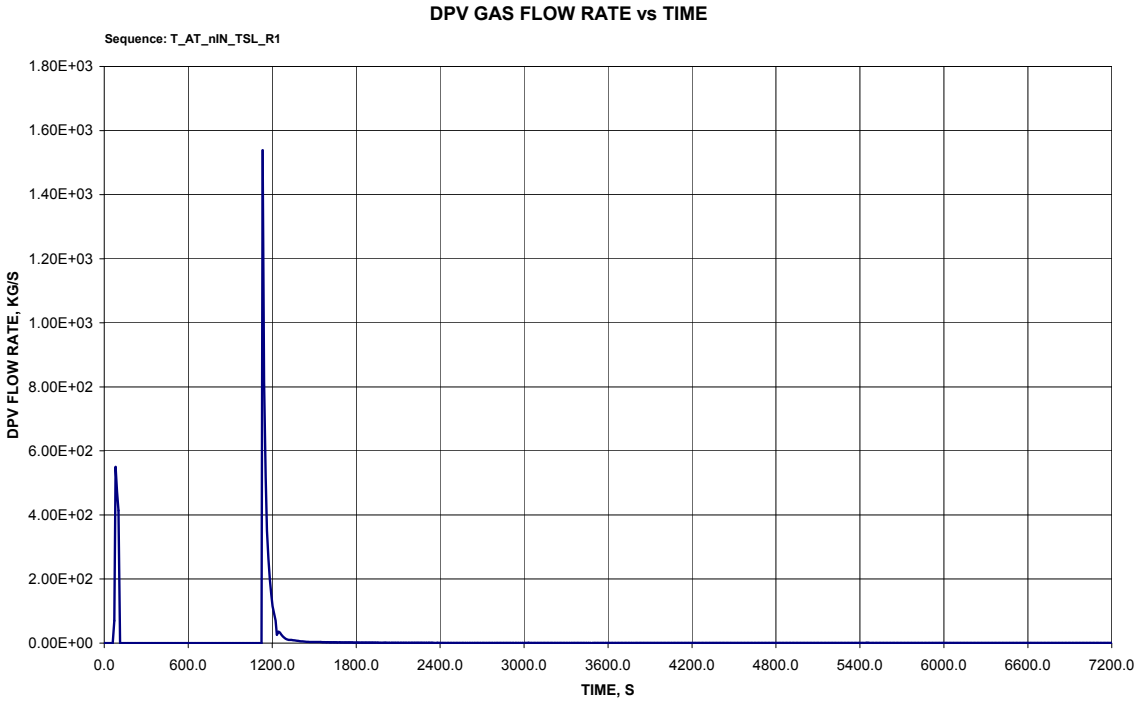

Figure 8B-6n. CDIV TSL DPV Flow Rate

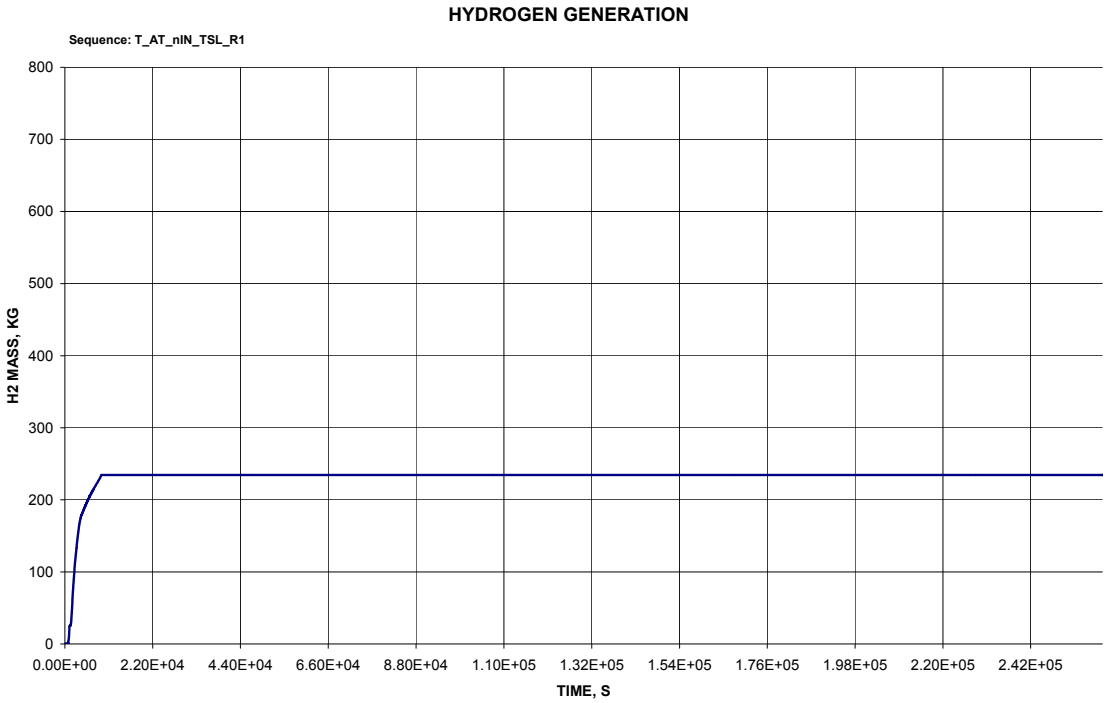

Figure 8B-6o. CDIV TSL Core Hydrogen Generation

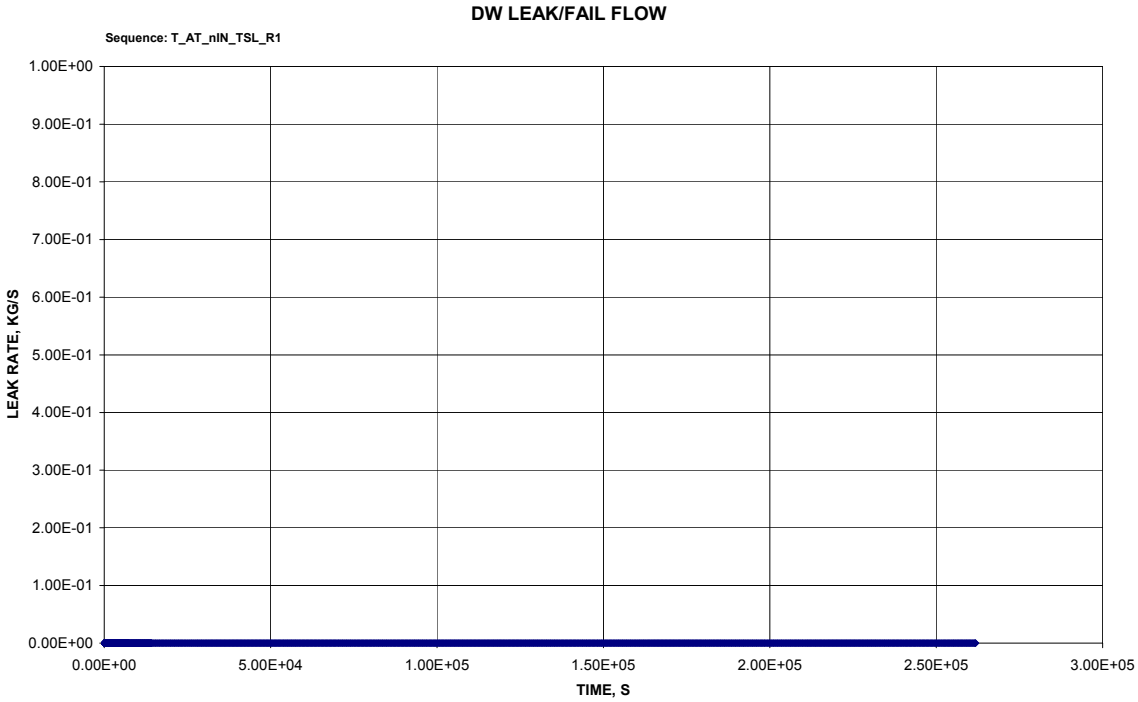

Figure 8B-6p. CDIV TSL Drywell Leak/Failure Flow Rate

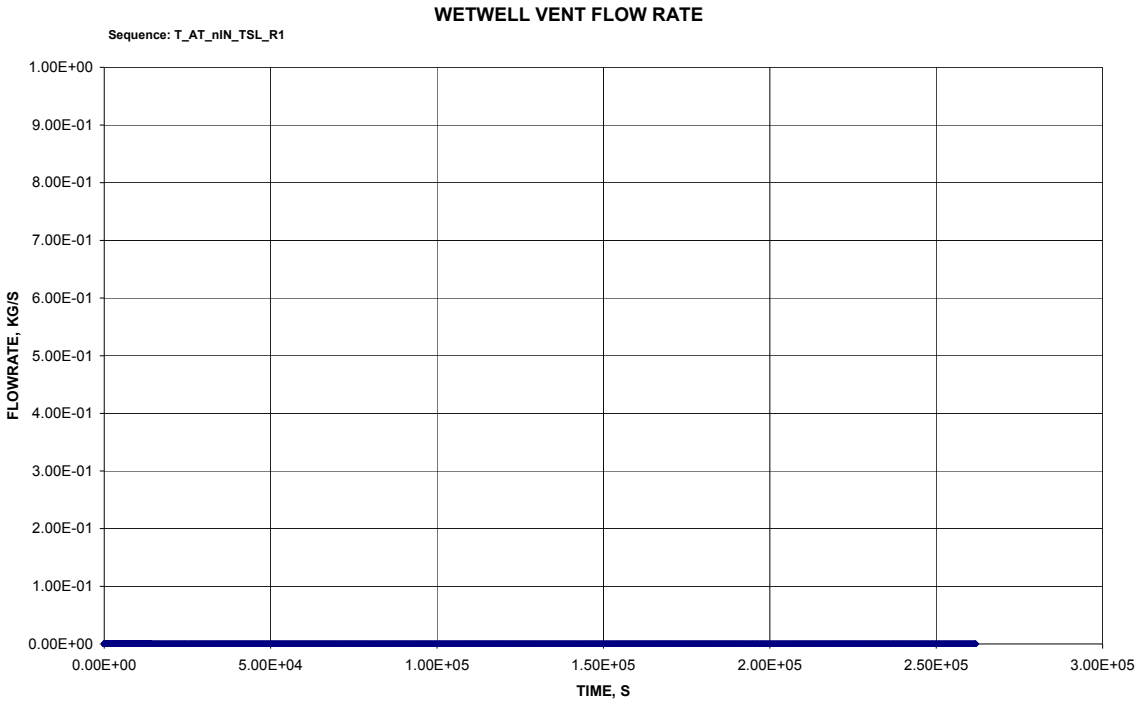

Figure 8B-6q. CDIV TSL Wetwell Vent Flow Rate

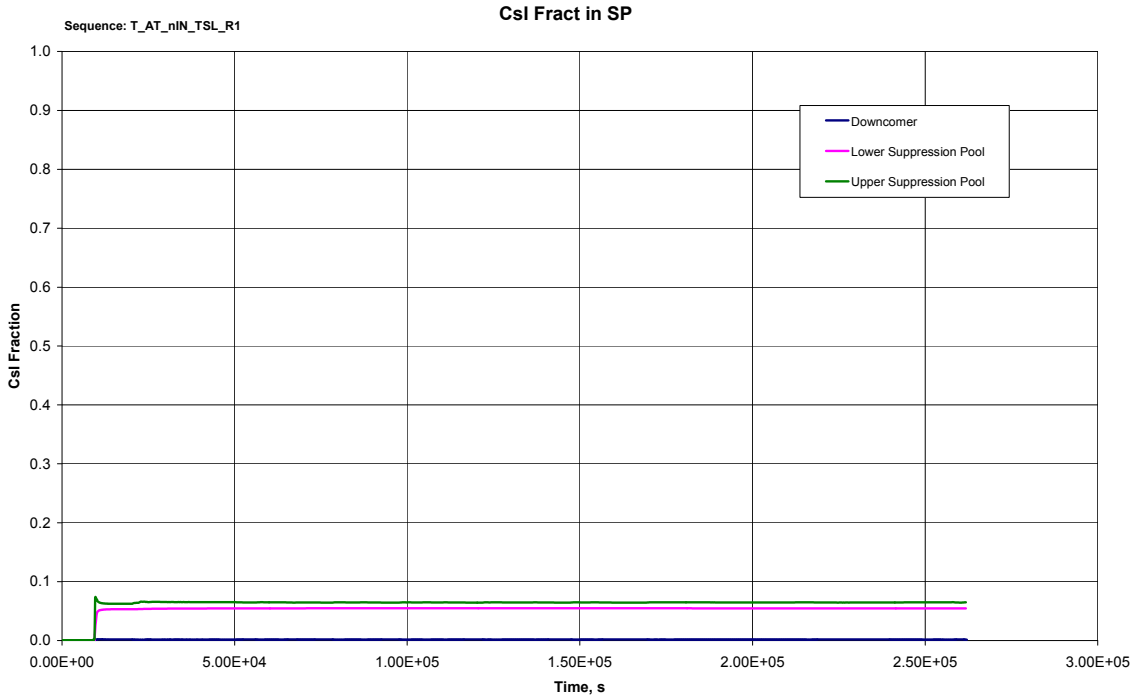

Figure 8B-6r. CDIV TSL Suppression Pool CsI Fraction

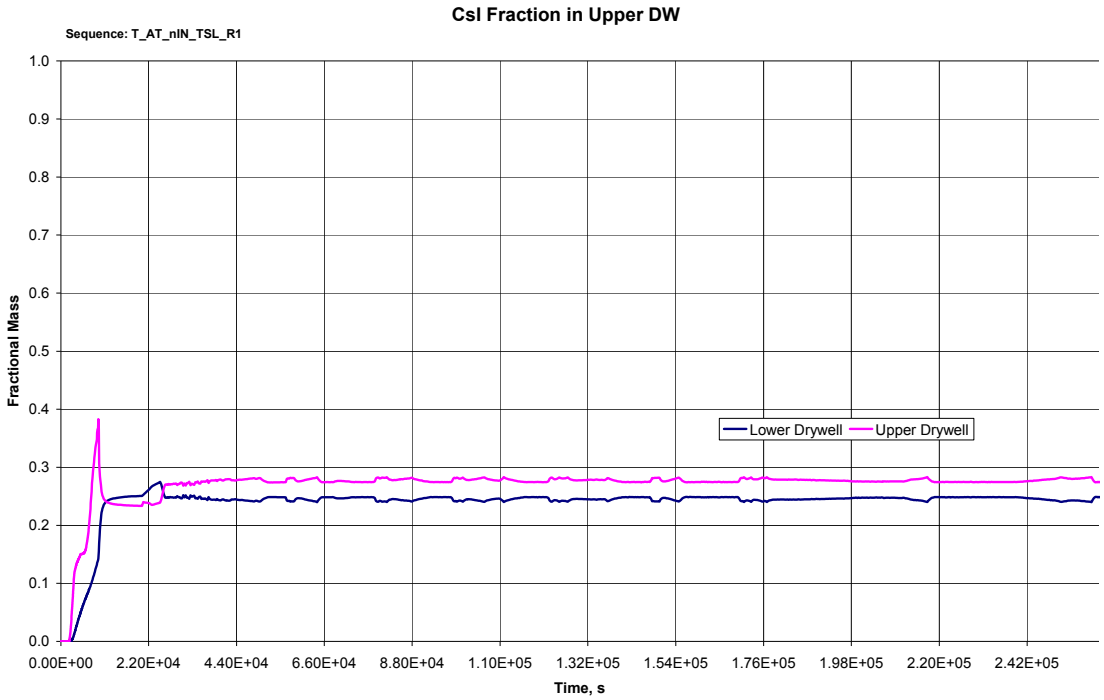

Figure 8B-6s. CDIV TSL Drywell CsI Fraction

8B.7 – Class IV Representative Sequence (T_AT_nIN_nCHR_FR)

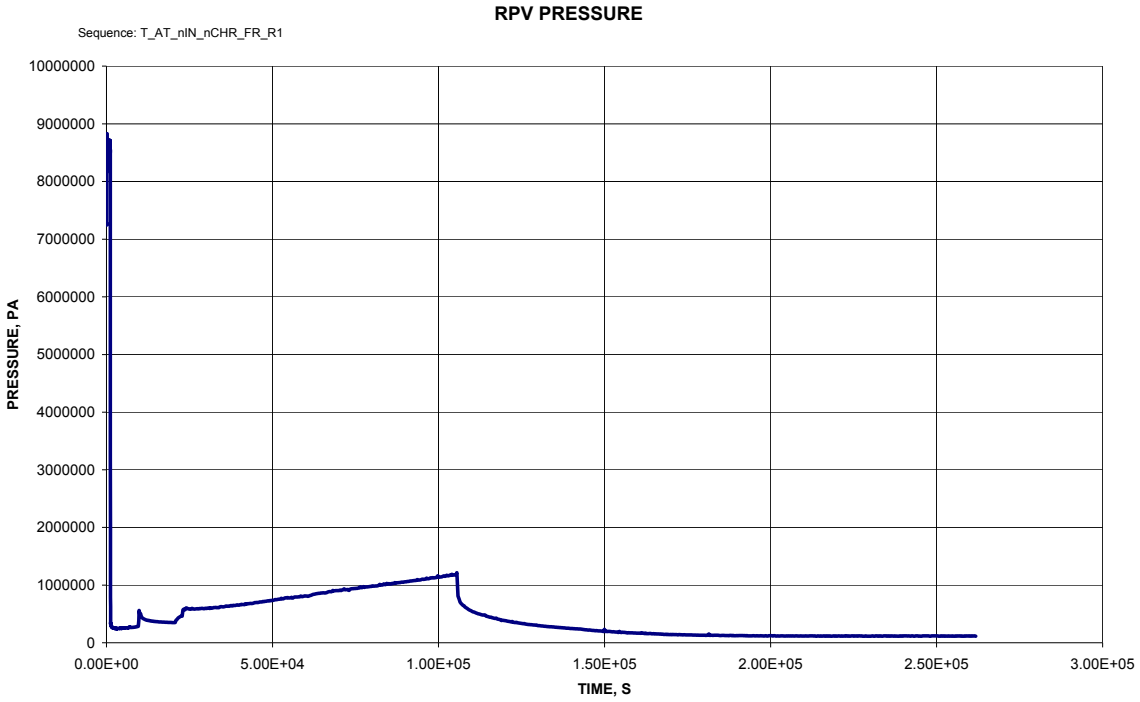

Figure 8B-7a. CDIV FR RPV Pressure

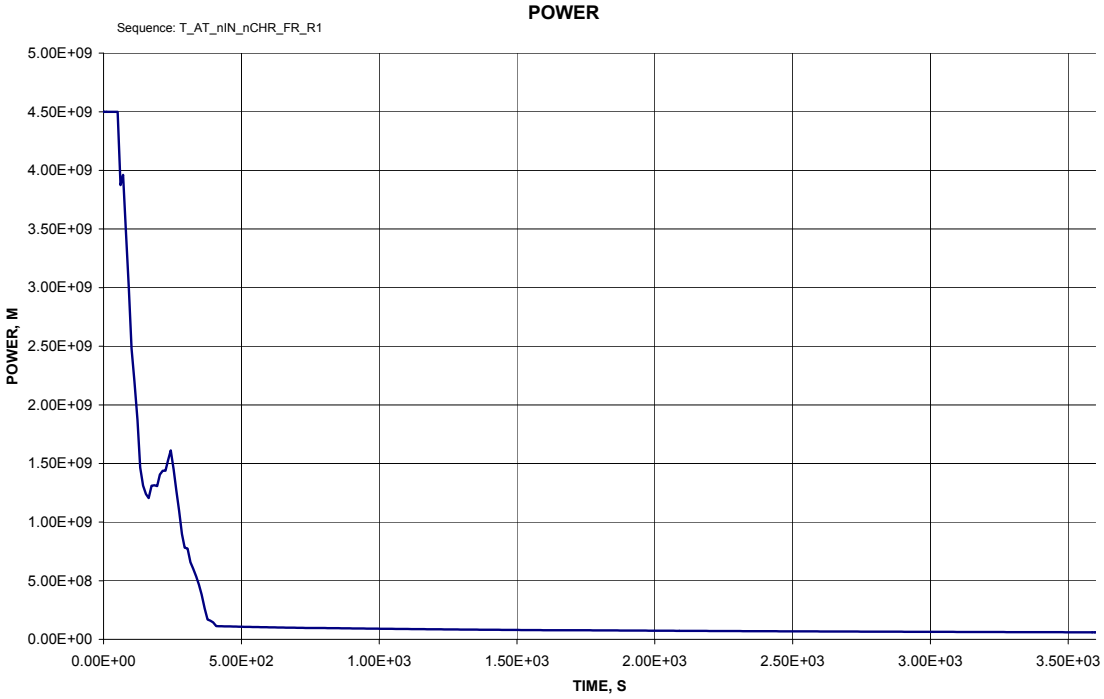

Figure 8B-7b. CDIV FR Core Power Level

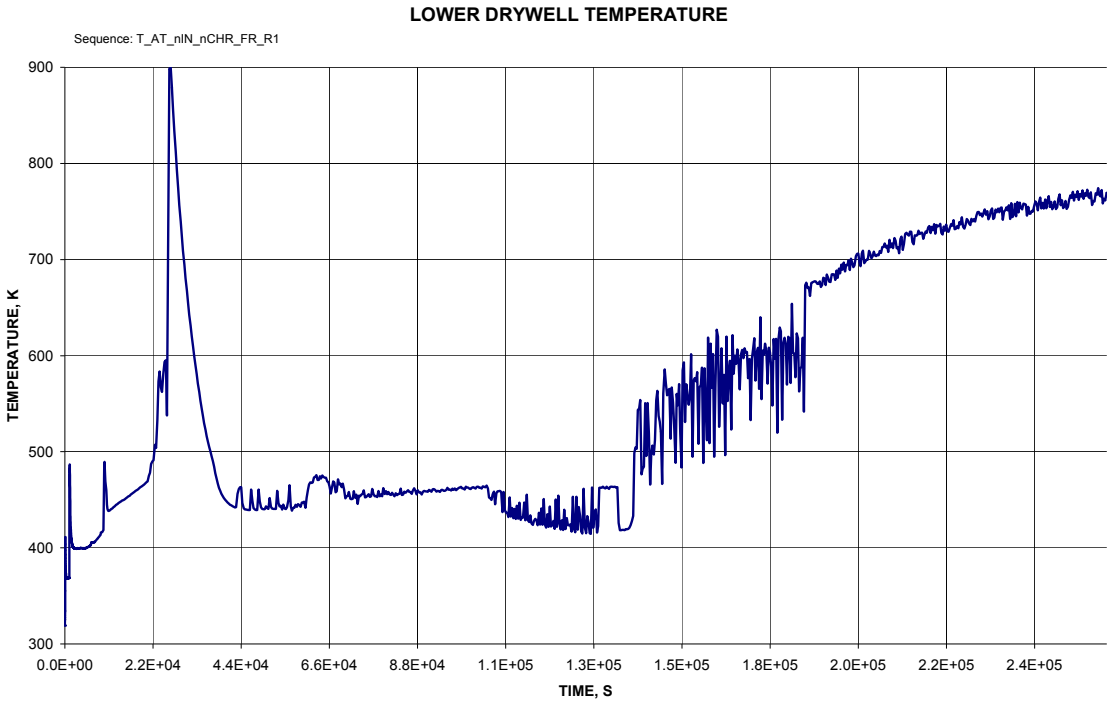

Figure 8B-7c. CDIV FR Lower Drywell Temperature

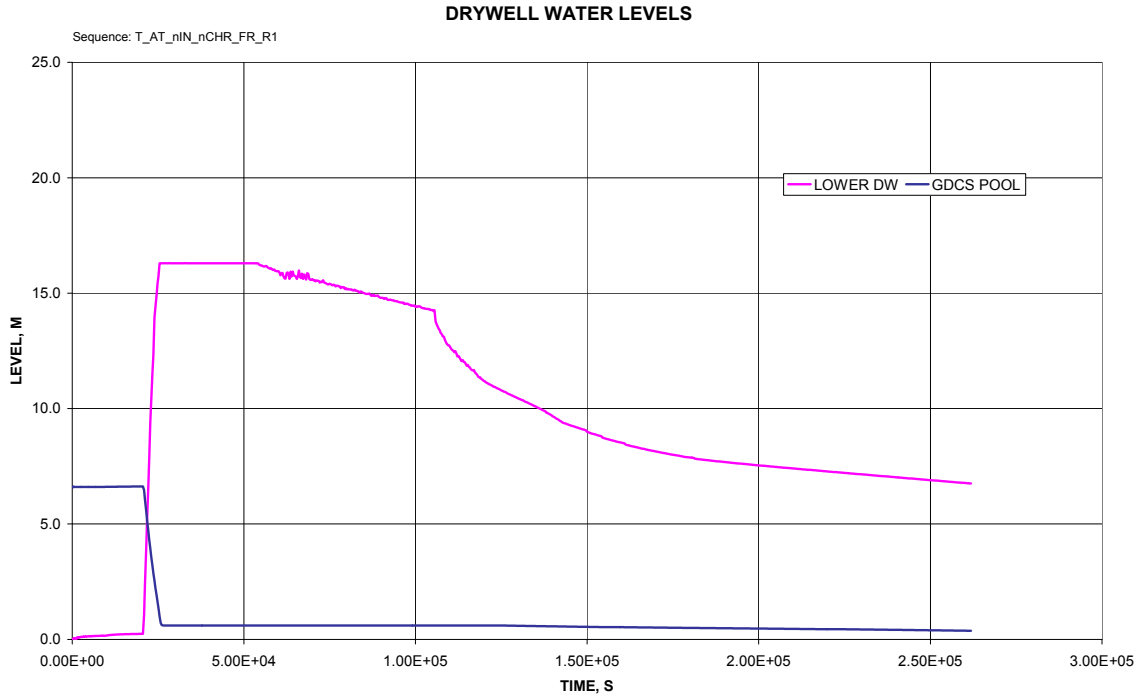

Figure 8B-7d. CDIV FR Drywell Water Levels

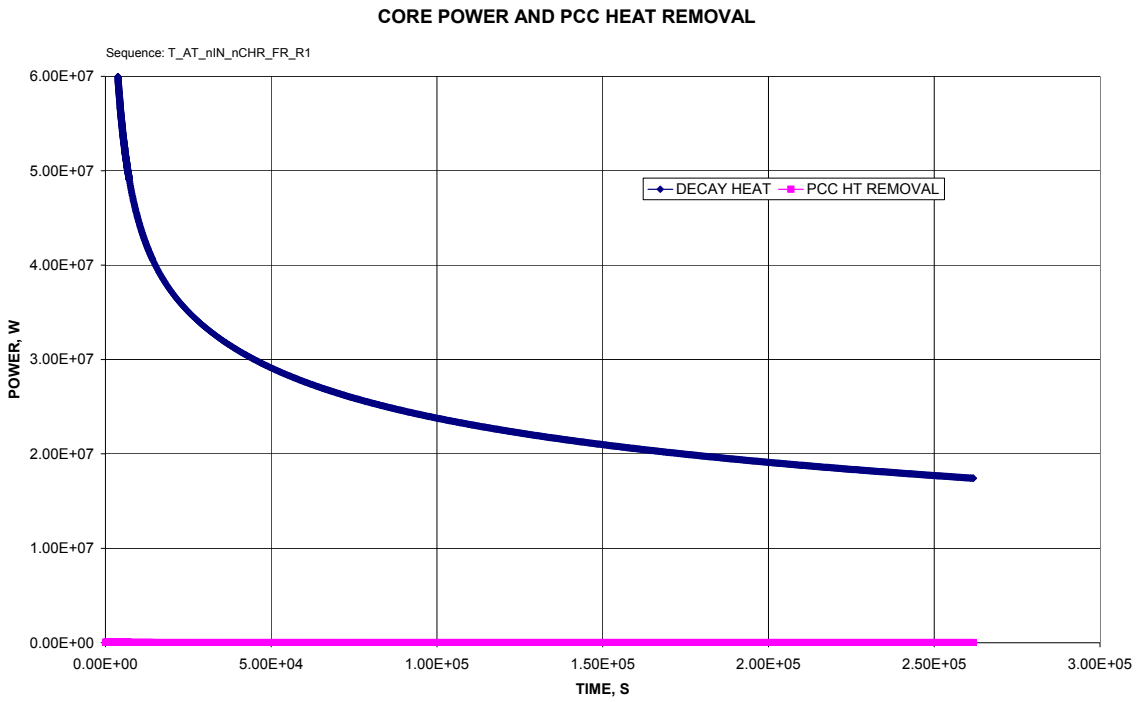

Figure 8B-7e. CDIV FR Core Power and PCCS Heat Removal

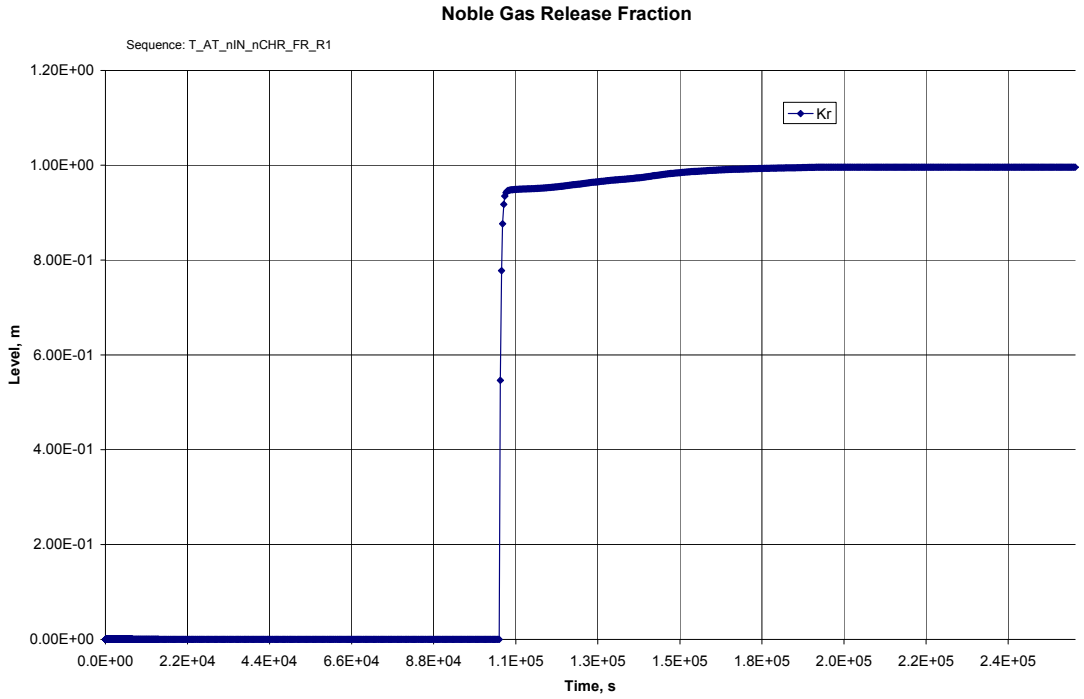

Figure 8B-7f. CDIV FR Noble Gas Release Fraction

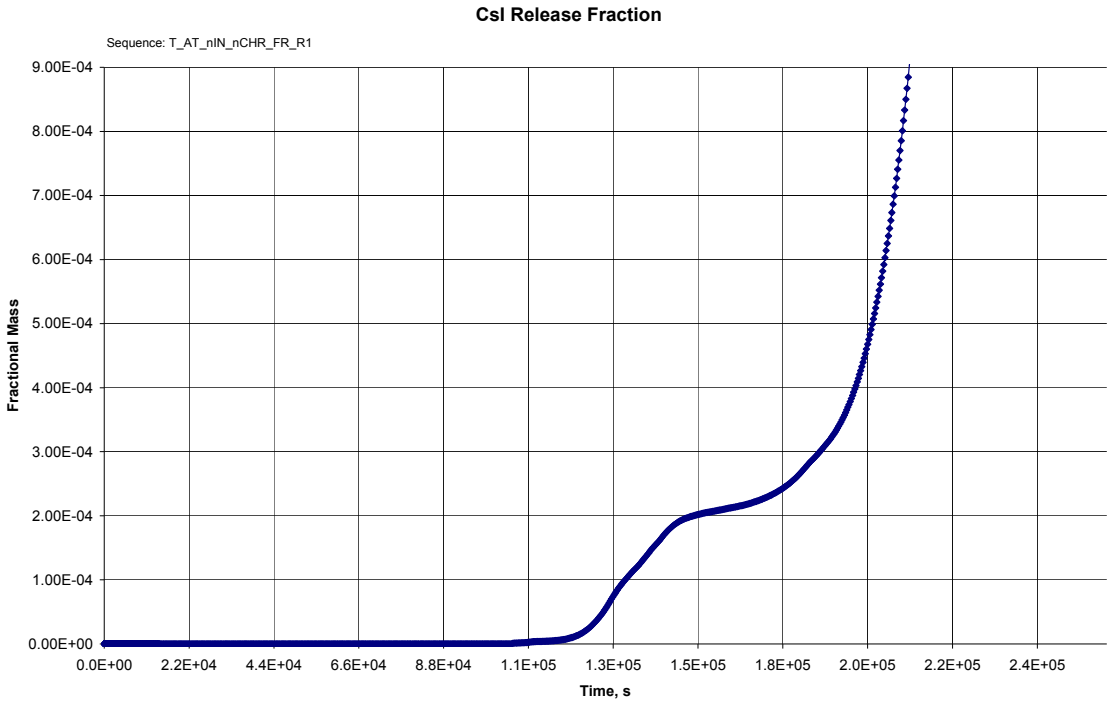

Figure 8B-7g. CDIV FR CsI Release Fraction

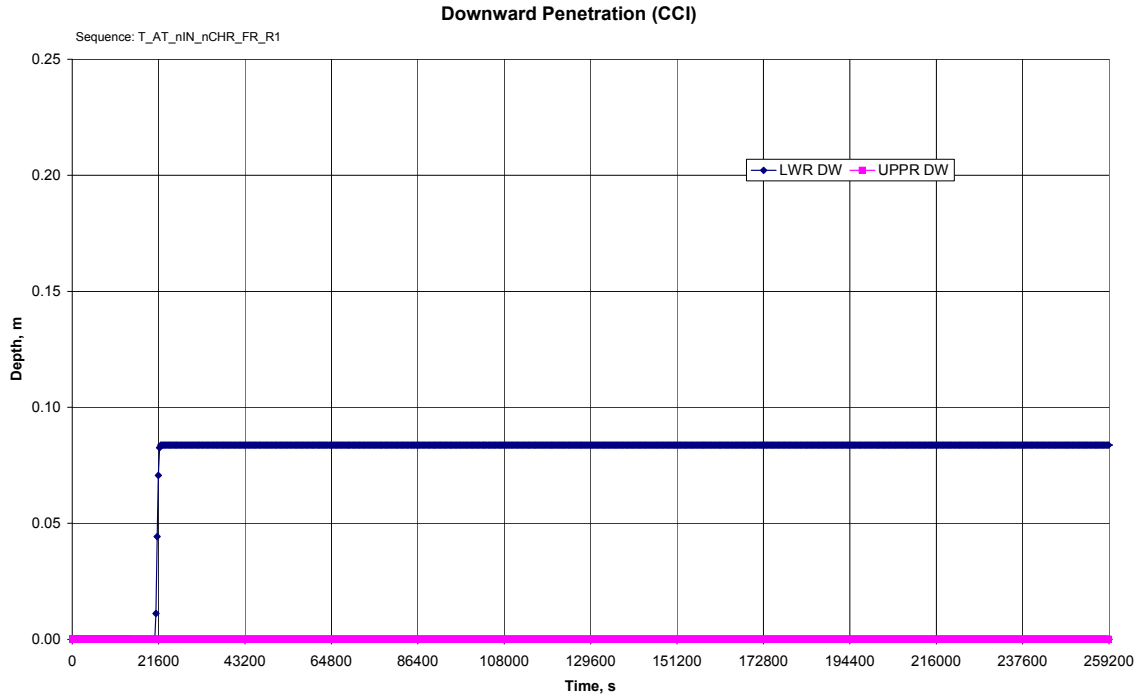

Figure 8B-7h. CDIV FR Downward CCI Penetration

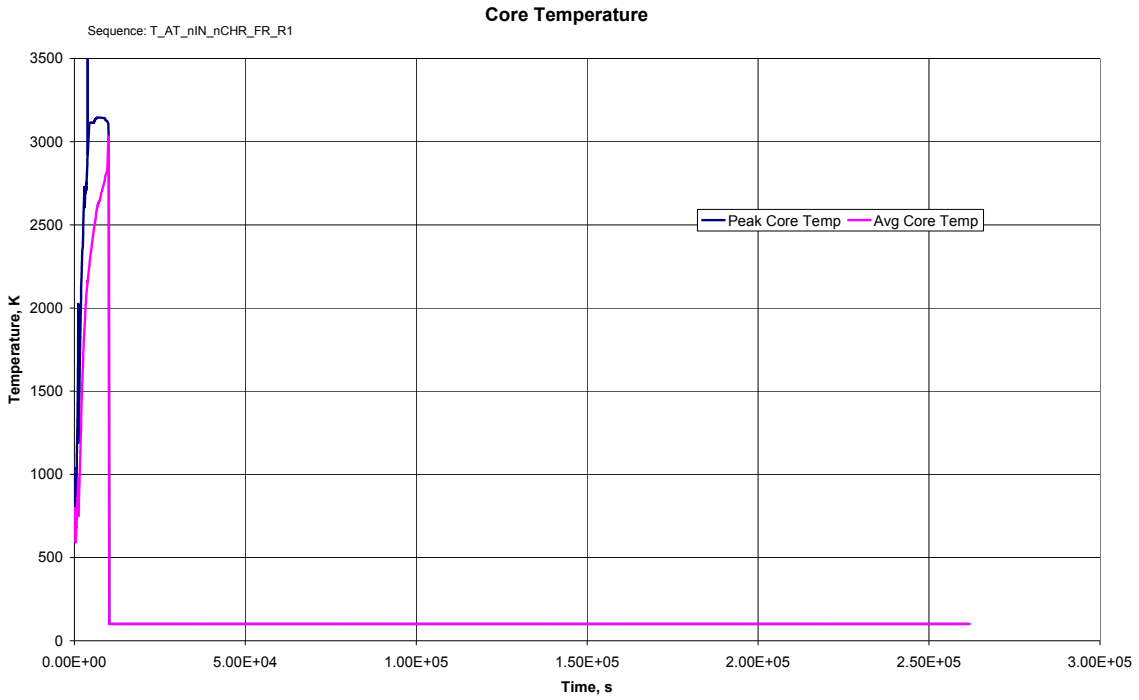

Figure 8B-7i. CDIV FR Core Temperature

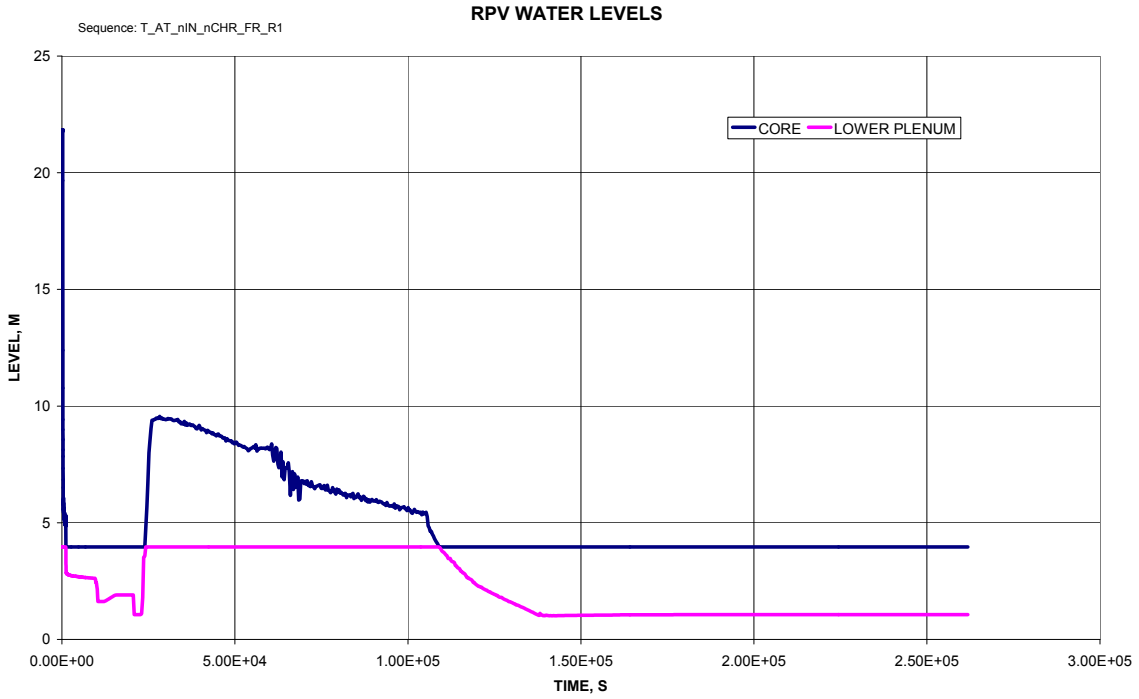

Figure 8B-7j. CDIV FR RPV Water Levels

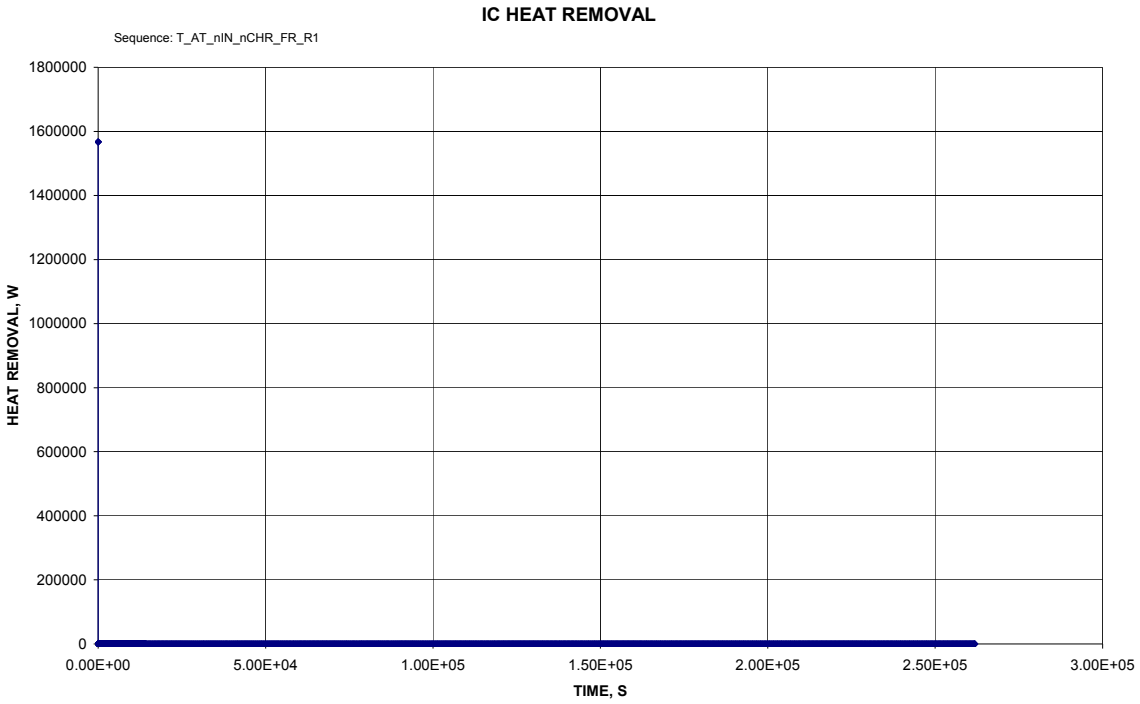

Figure 8B-7k. CDIV FR ICS Heat Removal

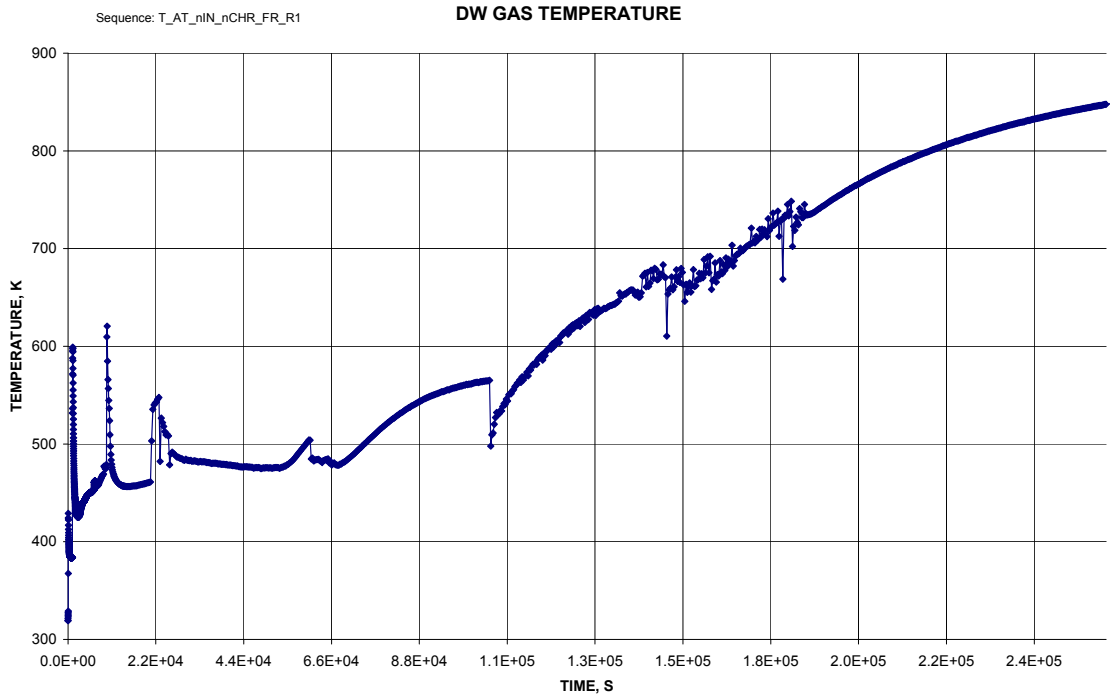

Figure 8B-7l. CDIV FR Drywell Gas Temperature

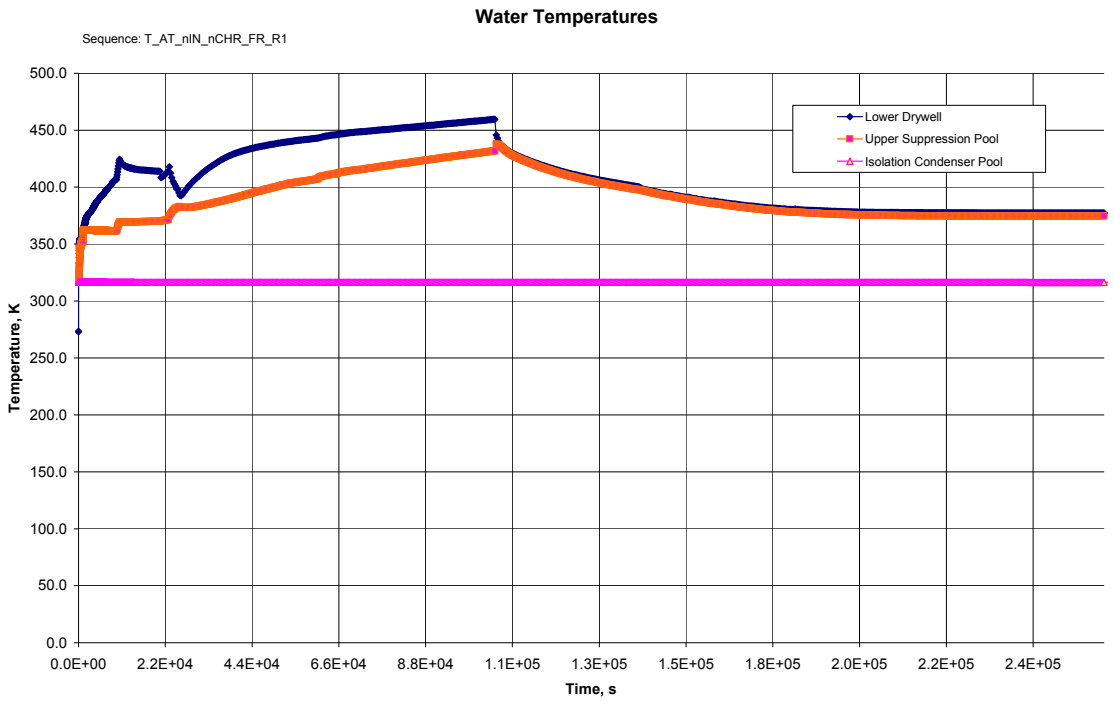

Figure 8B-7m. CDIV FR Water Temperatures

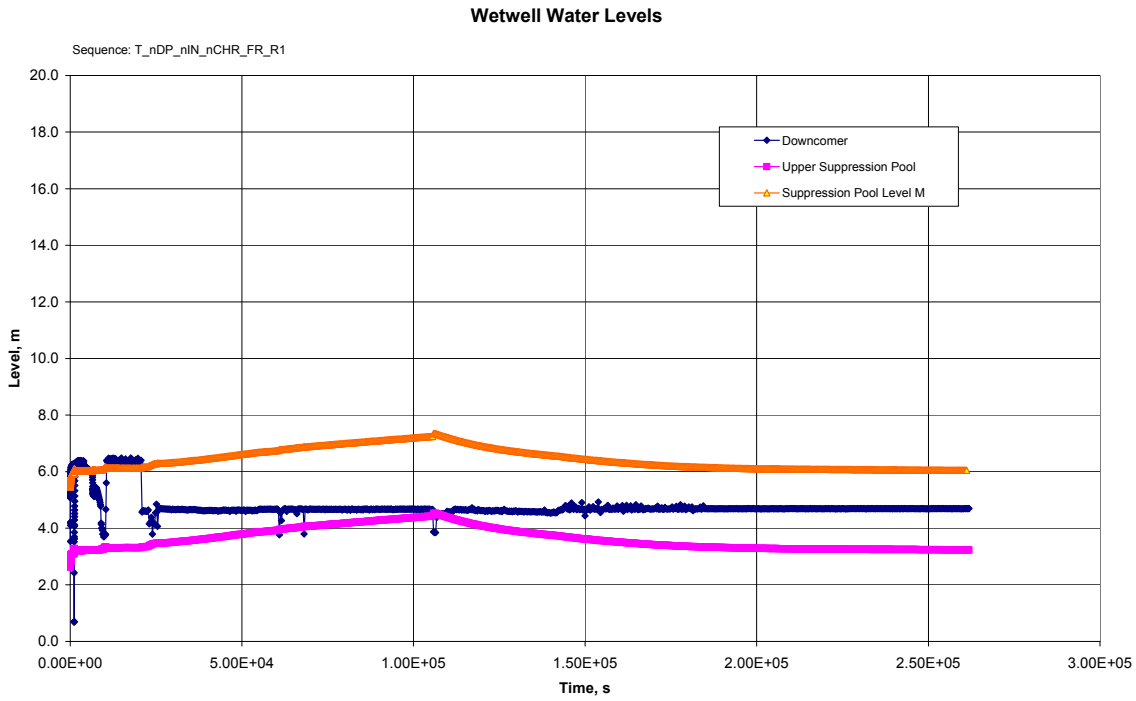

Figure 8B-7n. CDIV FR Wetwell Water Levels

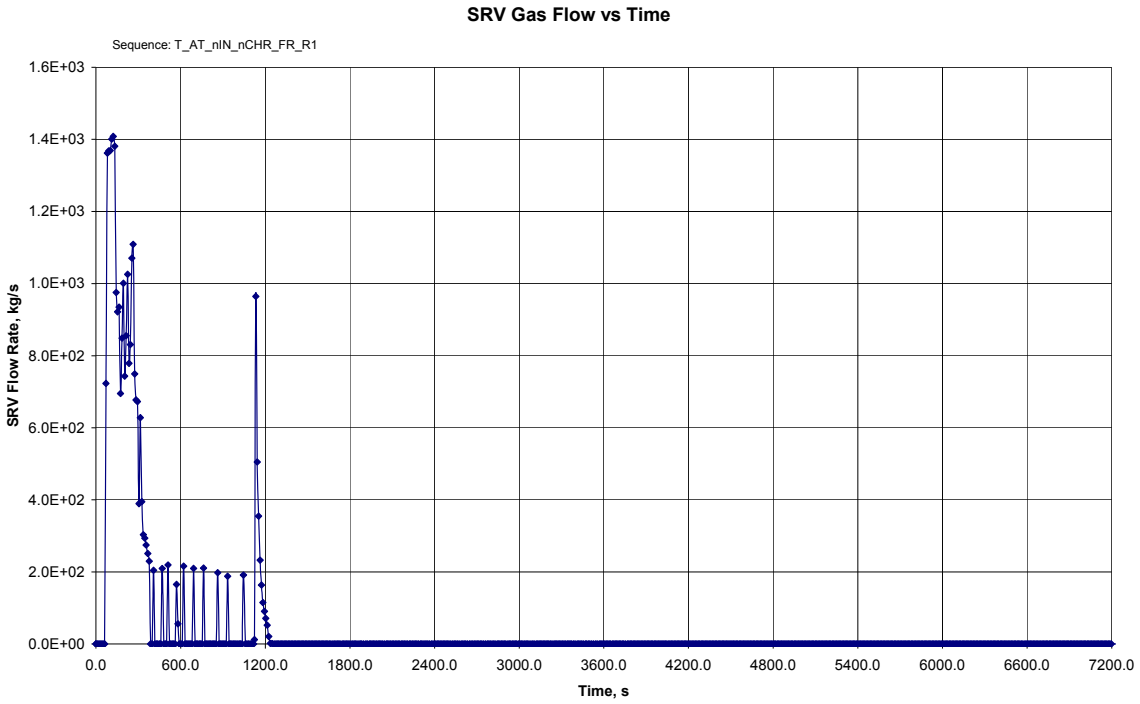

Figure 8B-7o. CDIV FR SRV Gas Flow Rate

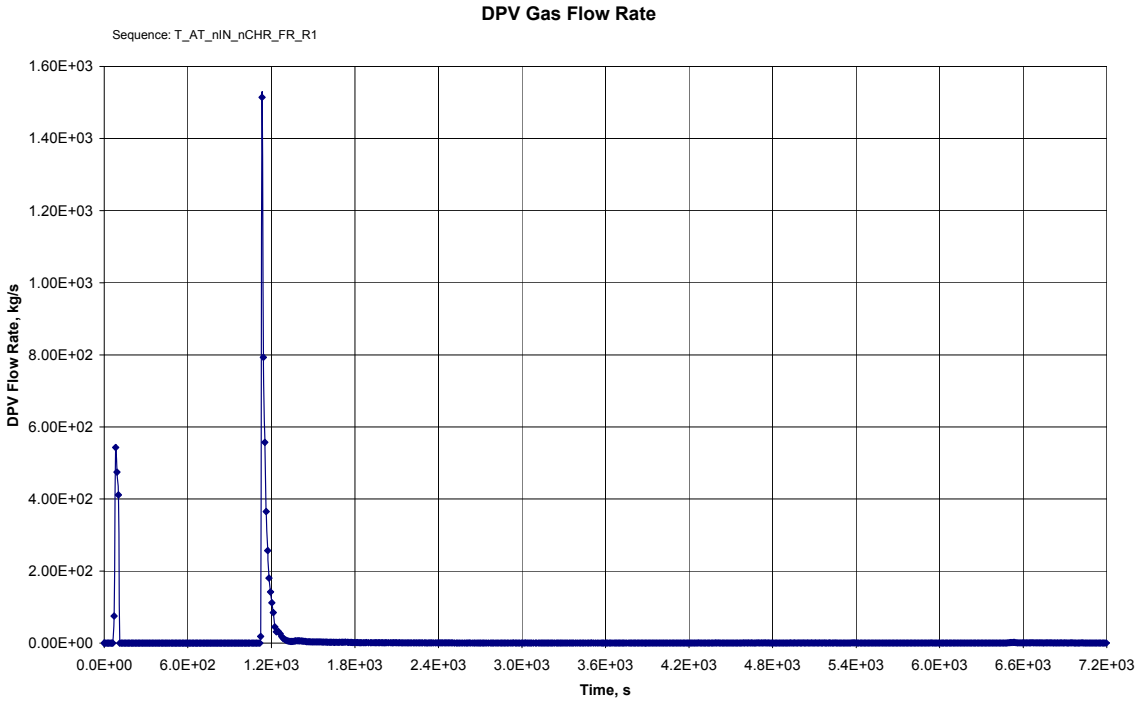

Figure 8B-7p. CDIV FR DPV Gas Flow Rate

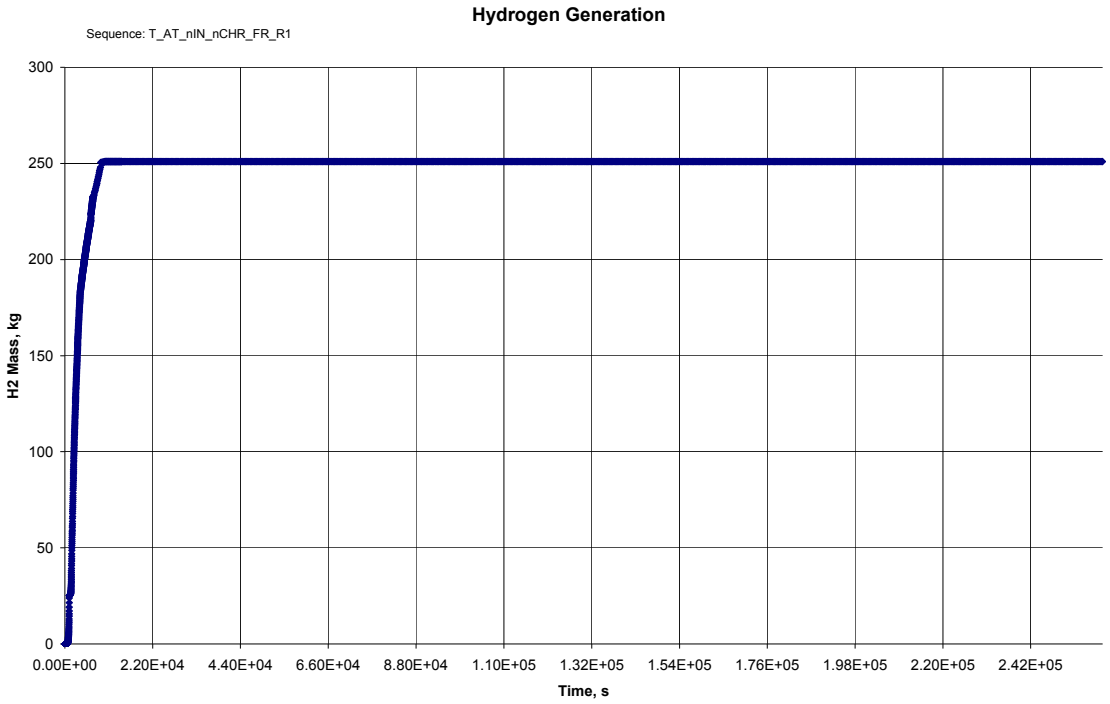

Figure 8B-7q. CDIV FR Core Hydrogen Generation

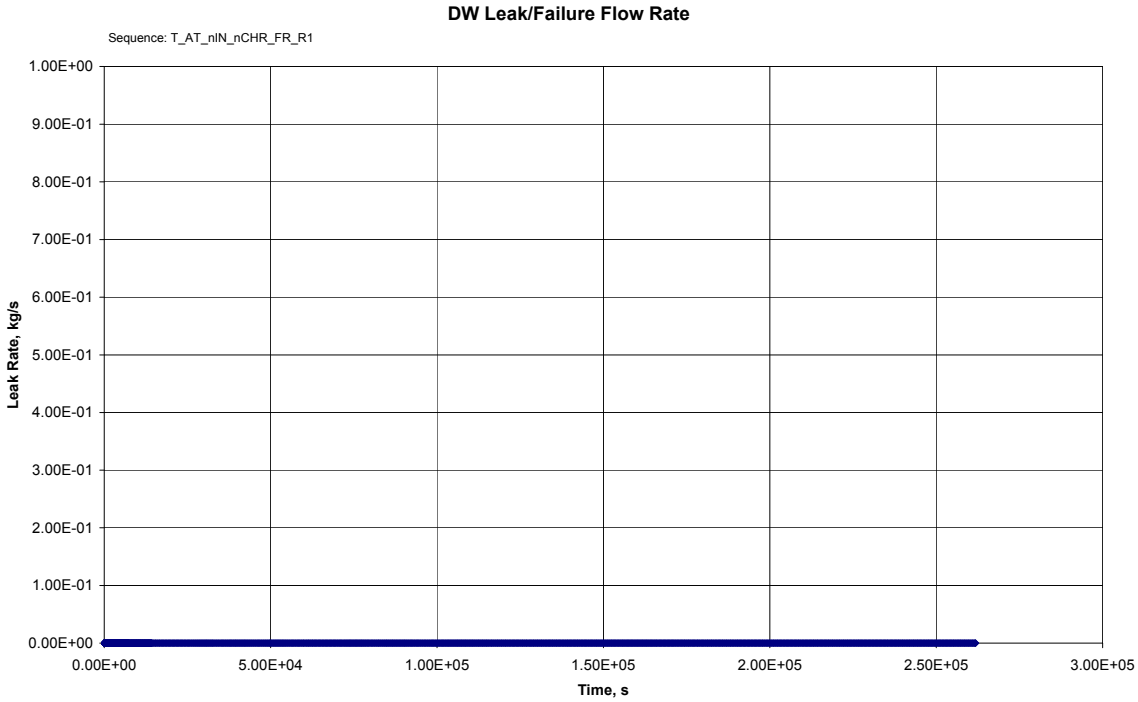

Figure 8B-7r. CDIV FR Drywell Leak/Failure Flow Rate

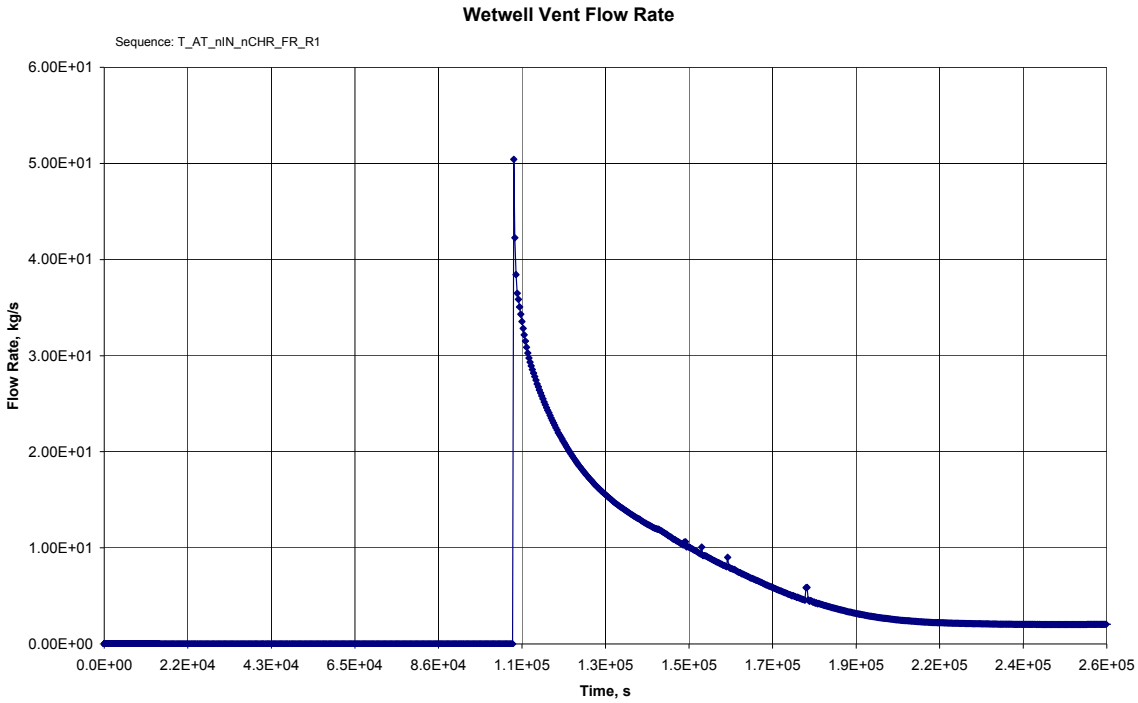

Figure 8B-7s. CDIV FR Wetwell Vent Flow Rate

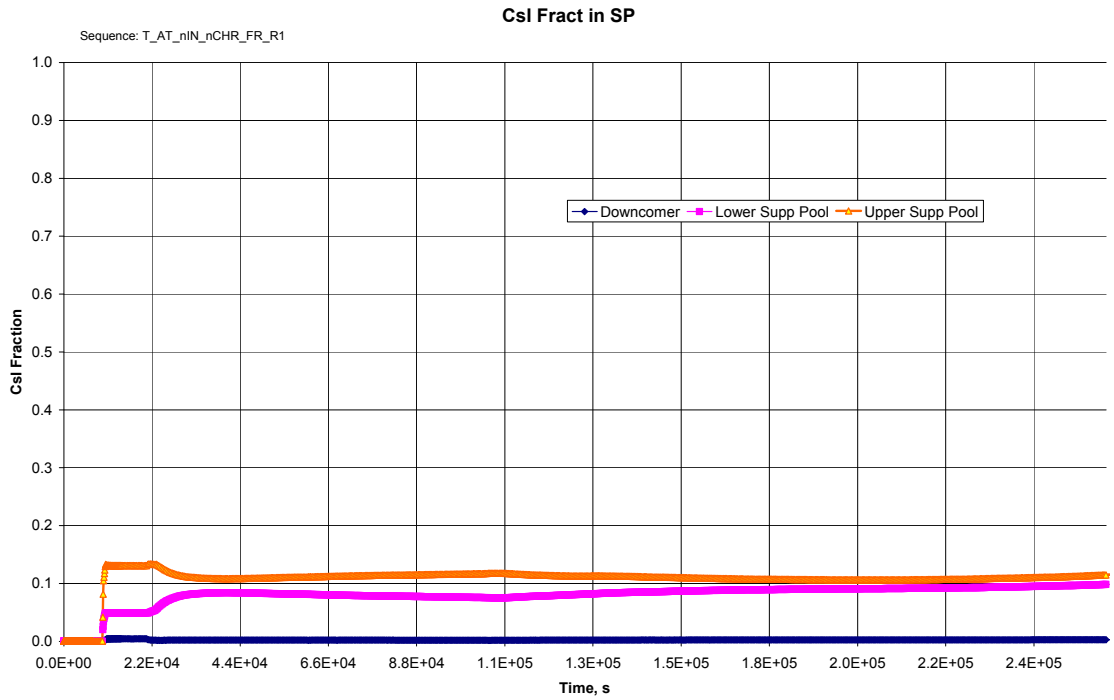

Figure 8B-7t. CDIV FR Suppression Pool CsI Fraction

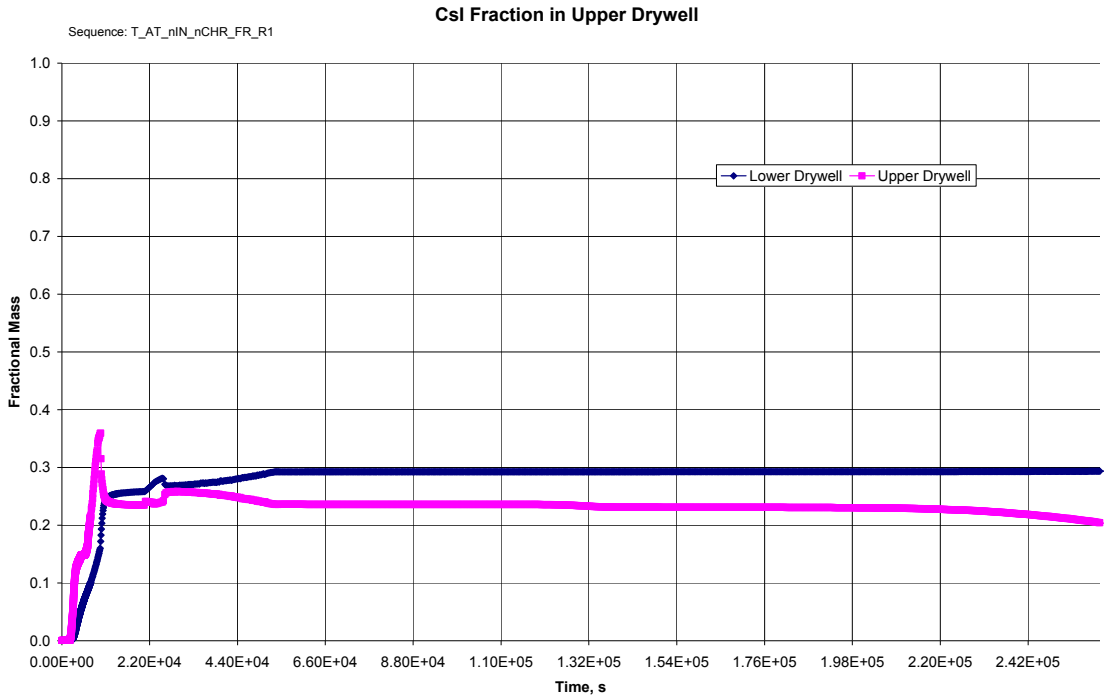

Figure 8B-7u. CDIV FR Upper Drywell CsI Fraction

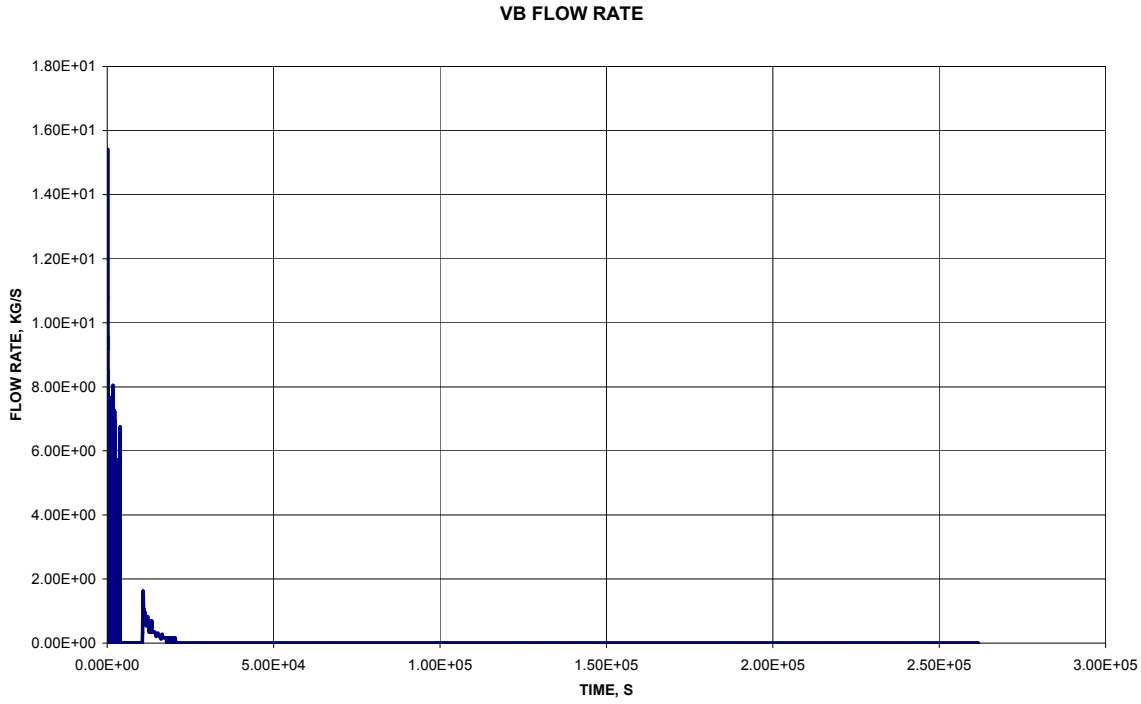

Figure 8B-7v. CDIV FR Vacuum Breaker Flow Rate