

Attachment 4

HCGS EAL Technical Bases Supporting Documents

(CD with paper index)

**Hope Creek NEI 99-01, Rev. 05, EAL Submittal
Reference Material Checklist
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Procedure Number	Procedure Nomenclature	EAL Number(s)	Collected (Y/N)
Calc E-4.1	HC Class 1E 125 VDC Station Battery and Charger Sizing	CU2.1	Y
DOT (ERG2008)	DOT Emergency Response Guide Link	HU3.2	No – Available online at: http://phmsa.dot.gov/staticfiles/P/HMSA/DownloadableFiles/Files/erg2008_eng.pdf
DWG 205415-A-8765	Sheet 1 500 KV Transmission Plan & Profiles	SU1.1 SA1.1 SS1.1 SG1.1 CU1.1 CA1.1	No – Refer to FSAR Figure 8.2-1 FSAR Reference Materials not included on Supporting Document CD as NRC maintains current copies
DWG E-0001-0	Sheet 1 Hope Creek Generating Station Single Line Diagram	SU1.1 SA1.1 SS1.1 SG1.1 CU1.1 CA1.1	No – Refer to FSAR Figure 8.3-1 FSAR Reference Materials not included on Supporting Document CD as NRC maintains current copies
Emergency Plan	Section 7, Communications	SU6.1 CU5.1	Y
HC.EP-EP.ZZ-0205	TSC – Post Accident Core Damage Assessment	FB2-L CB5-P	Y
HC.IC-CC.SE-0001	Nuclear Instrumentation System – Channel A Source Range Monitor C51-K600A	SU3.1	Y
HC.IC-CC.SE-0002	Nuclear Instrumentation System – Channel B Source Range Monitor C51-K600B	SU3.1	Y
HC.IC-CC.SE-0003	Nuclear Instrumentation System – Channel C Source Range Monitor C51-K600C	SU3.1	Y
HC.IC-CC.SE-0004	Nuclear Instrumentation System – Channel D Source Range Monitor C51-K600D	SU3.1	Y

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HC.IC-GP.BB-0003	Channel L-11683/B21-N027 Rx Cavity Floodup Level/Rx Shutdown Range Level Setup	RU2.1 CU3.1 CU3.2 CU3.3 CA3.2 CU4.2	Y
HC.OP-AB.BOP-0002	Main Turbine	HU1.3 HA1.3 HA1.6	Y
HC.OP-AB.CONT-0001	Drywell Pressure	SU8.1 RB1-P RB2-L CB1-L	Y
HC.OP-AB.CONT-0002	Primary Containment	SU8.1 RB1-P RB2-L CB1-L	Y
HC.OP-AB.CONT-0005	Irradiated Fuel Damage	RU2.1 RA2.1	Y
HC.OP-AB.COOL-0004	Fuel Pool Cooling	RU2.1 RA2.1	Y
HC.OP-AB.HVAC-0002	Control Room Environment	HU3.1 HA3.1 HA5.1 HS5.1	Y
HC.OP-AB.IC-0003	Reactor Protection System	SA3.1	Y
HC.OP-AB.MISC-0001	Acts of Nature	HU1.1 HU1.2 HU1.5 HA1.1 HA1.2	Y
HC.OP-AB.MISC-0002	CRIDS/Overhead Annunciators/PPC Computer	SU5.1 SA5.1 SS5.1	Y

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HC.OP-AB.RPV-0003	Recirc System/Power Oscillations	RB1-P	Y
HC.OP-AB.RPV-0008	Reactor Coolant Activity	SU7.1 SU7.2 FB3-L	Y
HC.OP-AB.RPV-0009	Shutdown Cooling	CA3.1 CA4.1	Y
HC.OP-AB.SEC-0001	Security Event	HU4.1 HA4.1 HS4.1 HG4.1	No - Security Sensitive Procedure – not included in submittal package
HC.OP-AB.SEC-0002	Airborne Event	HU4.1 HA4.1 HS4.1 HG4.1	No - Security Sensitive Procedure – not included in submittal package
HC.OP-AB.ZZ-0135	Station Blackout/Loss of Offsite Power/Diesel Generator Malf	SA1.1 SS1.1 SG1.1 SS2.1 CA1.1 CU2.1	Y
HC.OP-AB.ZZ-0150	125VDC System Malfunction	SS2.1	Y
HC.OP-AM.ZZ-0001	Severe Accident Guidelines (SAG)	FB1-L CB1-P CU3.1 CU3.2 CA3.2 CS3.1 CG3.1 CU4.2 CB3-P CG3.1 CG3.2	Y
HC.OP-AR.EC-0002	Reactor Level Indication Panel 10C214	RU2.1	Y

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HC.OP-AR.ZZ-0001	Overhead Annunciator Window Box A1	HU1.4 HA1.4	Y
HC.OP-AR.ZZ-0006	Annunciator Response Procedure, Window B1	RB3-L	Y
HC.OP-AR.ZZ-0008	Annunciator Response Procedure, Window C1	RB3-L	Y
HC.OP-AR.ZZ-0009	Overhead Annunciator Window Box C3	SU3.1 CS3.2 CG3.2 CU6.1	Y
HC.OP-AR.ZZ-0010	Annunciator Response Procedure, Window C5	RB3-L	Y
HC.OP-AR.ZZ-0011	Overhead Annunciator Window Box C6	HU1.1 HA1.1 SU7.1 CB5-P SU5.1 SA5.1 SS5.1	Y
HC.OP-AR.ZZ-0012	Annunciator Response Procedure, Window C8	RB3-L	Y
HC.OP-AR.ZZ-0013	Overhead Annunciator Window Box D1-A5	RU2.1 RA2.1	Y
HC.OP-AR.ZZ-0014	Annunciator Response Procedure, Window D3	RB3-L	Y
HC.OP-AR.ZZ-0016	Overhead Annunciator Window Box E3	CB3-P CG3.1 CG3.2	Y
HC.OP-AR.ZZ-0019	Overhead Annunciator Window Box E6-A3	RA2.1	Y
HC.OP-AR.ZZ-0024	CRIDS Computer Points Book 5 D3624 thru D4288	CB3-P CG3.1 CG3.2	Y

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HC.OP-EO.ZZ-0101A-FC	ATWS-RPV Control	SG1.1 SA3.1 SS3.1 SG3.1 FB1-P FB1-L RB1-L RB4-L CB1-P	No – Copy could not meet PDF requirements for NRC electronic submittal
HC.OP-EO.ZZ-0101-FC	RPV Control	SG1.1 SS2.1 SU8.1 FB1-P FB1-L RB1-P RB1-L RB2-L RB4-L CB1-P CB1-L CU3.1	Y

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Procedure Number	Procedure Nomenclature	EAL Number(s)	Collected (Y/N)
HC.OP-EO.ZZ-0102-FC	Primary Containment Control	SS2.1 SG3.1 SU8.1 RB1-P RB2-L RB4-L CB2-P CB4-P CB1-L CB3-L CB4-L CU3.2 CA3.2 CS3.2 CG3.2	Y
HC.OP-EO.ZZ-0103/4-FC	Reactor Building and Radioactive Release Control	HU1.4 HA1.4 RB1-P RB2-P RB4-L CB5-L CG3.1 CG3.2	Y
HC.OP-EO.ZZ-0202-FC	Emergency Depressurization	SS2.1	Y
HC.OP-EO.ZZ-0206A-FC	ATWS – RPV Flooding	SG1.1 SG3.1 FB1-P FB1-L RB1-L CB1-P	Y

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HC.OP-EO.ZZ-0206-FC	RPV Flooding	SG1.1 FB1-P FB1-L RB1-L CB1-P	Y
HC.OP-EO.ZZ-0318	Containment Venting	CB4-L	Y
HC.OP-GP.ZZ-0005	Drywell Leakage Source Detection	SU8.1 RB1-P RB2-L CU3.2 CA3.2 CS3.2 CG3.2	Y
HC.OP-IO.ZZ-0004	Shutdown from Rated Power to Cold Shutdown	CU4.1 CU4.2 CA4.1	Y
HC.OP-IO.ZZ-0005	Cold Shutdown to Refueling	CU3.1 CU3.3 CA3.1 CU4.1 CU4.2	Y
HC.OP-IO.ZZ-0008	Shutdown from Outside the Control Room	HA5.1 HS5.1	Y
HC.OP-IO.ZZ-0009	Refueling Operations	CA3.1	Y
HC.OP-SO.BC-0002	Decay Heat Removal Operation	CU4.1 CU4.2 CA4.1	Y
HC.OP-SO.SG-0001	Seismic Instrumentation System Operation	HU1.1 HA1.1	Y
HC.OP-SO.SM-0001	Isolation Systems Operation	SU8.1 RB1-P RB2-L	Y

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HC.OP-ST.SE-0005	SRM Channel Count Rate Surveillance	SU3.1 CS3.2 CG3.2 CU6.1	Y
HC.RP-AR.SP-0001	RMS Alarm Response	RA2.1 RA3.1 SU7.1 RB1-	Y
HOLTEC	Hi-Storm 100 FSAR TOC ML101090396 Chapter 1: General Description ML101090397 Chapter 2: Principal Design Criteria. ML101090398 Chapter 3: Structural Evaluation. ML101110022 Chapter 4: Thermal Evaluation. ML101090499 Chapter 5: Shielding Evaluation. ML101110021 Chapter 6: Criticality Evaluation. ML101110036 Chapter 7: Confinement. ML101110037 Chapter 8: Operating Procedures. ML101110038 Chapter 9: Acceptance Criteria and Maint ML101110039 Chapter 10: Radiation Protection. ML101110042 Chapter 11: Accident Analysis. ML101110043 Chapter 12: Operating Controls and Limits. ML101110044 Chapter 13: Quality Assurance. ML101110045	EU1.1	No - See ADAMS Accession Numbers listed under Procedure Nomenclature:
HOLTEC (Spent Fuel Storage Cask)	Certificate of Compliance, Docket # 72-1014	EU1.1	No - C of C = ADAMS Accession No. ML082030158, App A = ADAMS Accession No. ML082030221. App B = ADAMS Accession No. ML082030231
NC.CH-SH.MET-1206 – Replaced by: CY-AA-170-500	Meteorological Monitoring System Calibration and Maintenance	HU1.2 HA1.2	Y

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NUREG 1228	Source Term Estimation During Incident Response to Severe Nuclear Power Plant Accidents, Table 4.1 –	FB3-L	No - NRC Document not included in submittal package
ODCM	Hope Creek Offsite Dose Calculation Manual (ODCM)	RS1.3 RG1.3 RU1.3 RA1.3 RU1.2 RA1.2 RU1.1 RA1.1 RS1.1 RG1.1	Y
OE-25324	Alert Declared Due to CO ₂ Fire Extinguisher Discharge	HU3.1 HA3.1	No – INPO Confidential
OE-6144	Resin Intrusion, Hope Creek	SU7.1	No – INPO Confidential
OP-AA-108-111-1001	Severe Weather and Natural Disaster Guidelines	HU1.2 HU1.5 HA1.2	Y
OP-HC-108-115-1001	Operability Assessment and Equipment Control Program	CS3.1	Y
OU-AA-103	Shutdown Safety Management Program	CS3.1 CG3.1 CG3.2 CA4.1	Y
Reg Guide 1.109	Table E-9	FB3-L	No - NRC Document not included in submittal package
SCP	Salem-Hope Creek Security Contingency Plan (Safeguards Document – not included in submittal package)	HU4.1 HA4.1 HS4.1	No -(Safeguards Document – not included in submittal package)

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SY-AA-101-132	Threat Assessment	HU4.1	Y
Tech Spec Bases Fig. 3.3-1	Reactor Water Vessel Level	FB1-P RB1-L CU3.1 CU3.3 CA3.1 CS3.1 CU4.2	Y
Tech Specs and FSAR Reference Materials	All Tech Specs and FSAR Reference Materials	Multiple EALs	No - Tech Specs and FSAR Reference Materials not included on Supporting Document CD as NRC maintains current copies