

**Table 3.10-2—List of U.S. EPR Important-to-Safety Systems Screened for the Seismic Qualification Program
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Category	Systems
Fluid Systems	Reactor Coolant JE (except JEW), JA, JDA ¹
	Safety Injection & Residual Heat Removal JNA, JND, JNG
	Component Cooling Water KA
	Essential Service Water PE
	Safety Chilled Water QK
	Extra Borating JDH
	Feedwater LA
	Emergency Feedwater LAR, LAS
	In-containment Refueling Water Storage Tank (IRWST) JNK
	Main Steam LB
	Steam Generator Blowdown LCQ
	Chemical & Volume Control System KBA, KBD, JEW
	Nuclear Island Drain and Vent System KT
	Fire Water Distribution System SGB
	Fuel Pool Cooling & Purification System FAK, FAL

**Table 3.10-2—List of U.S. EPR Important-to-Safety Systems Screened for the Seismic Qualification Program
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Category	Systems
Auxiliary Systems	Nuclear Sampling KU
	Sampling Activity Monitoring KLL
	Emergency Diesel Generator Set XJA, XKA, XJN, XJV, XJG, XJQ, XJR, XJX
	Combustible Gas Control JMT
	Fuel Handling System, FCJ
Electrical Systems	Class 1E Uninterruptible Power Supply BGA, BRA, BRU01, BRW, BTD, BTP, BUC, BUW, BGT, BLB, BLT, BUF, BRD
	Emergency Power Supply BD, BM, BN, BF
	Non-Class 1E Uninterruptible Power Supply BRJ, BRU02, BRZ, BTA, BTL, BUB, BUM, BUZ
	Lighting & Small Power Supply BG, BJ, BL, BZL
	Normal Power supply BB, BF, BH
	12-Hour Uninterruptible Power Supply BRB, BRC, BRU03, BRV, BRX, BTB, BTM, BUD, BUE, BUV, BUX

Table 3.10-2—List of U.S. EPR Important-to-Safety Systems Screened for the Seismic Qualification Program
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Category	Systems
I&C Systems	Protection JR, CLE, CLF, CLG, CLH
	Safety Automation DR
	Priority & Actuator Control DS, CLE6, CLF6, CLG6, CLH6
	Signal Conditioning and Distribution CLE51/52, CLF51/52, CLG51/52, CLH51/52
	Safety Information & Control CWY, JR
	Incore Instrumentation JKS, JKQ, CNC, CNN, CLE12/15, CLF12/15, CLG12/15, CLH12/15
	Excore Instrumentation JKT, CLE13, CLF13, CLG13, CLH13
	Boron Concentration Measurement CLE23, CLF23, CLG23, CLH23
	Rod Position Measurement CLE11, CLF11, CLG11, CLH11
	Reactor Pressure Vessel Level Measurement JKR, JKS, CLE14, CLF14, CLG14, CLH14
	Control Rod Drive Control BU
	Hydrogen Monitoring JMU
	Radiation Monitoring JYK, LBA, CLE20, CLF20, CLG20, CLH20
	Diverse Actuation CME51, CME52, CME53, CME54
	Fatigue Monitoring JYL
	Leak Detection JYH
	Process Information & Control CRU
	Reactor Control, Surveillance & Limitation JS
	Seismic Monitoring CPE

Table 3.10-2—List of U.S. EPR Important-to-Safety Systems Screened for the Seismic Qualification Program
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Category	Systems
HVAC Systems	Containment Building Ventilation KLA
	Annulus Ventilation KLB
	Safeguard Building Controlled Area Ventilation KLC
	Electrical Division Safeguards Building Ventilation SAC
	Fuel Building Ventilation KLL
	Main Control Room Air Conditioning SAB
	Essential Service Water Pump Building Ventilation SAQ
	Emergency Power Generating Building Ventilation SAD
	Nuclear Auxiliary Building Ventilation System KLE
	Containment Isolation Systems ²
Demineralized Water Distribution GHC	
Leak-off JMM	
Severe Accident Heat Removal JMQ	
Gaseous Waste Processing KPL	
Condensate (Inside Containment) LC, LD, MAG	
Central Gas Distribution (Nitrogen) QJ	
Operational Chilled Water – Nuclear Island QNA, QNB, QNJ	

**Table 3.10-2—List of U.S. EPR Important-to-Safety Systems Screened for the Seismic Qualification Program
Sheet 5 of 5**

Category	Systems
Containment Isolation Systems ²	Secondary Sampling (SG Blowdown) QU
	Compressed Air SC
	Fire Water Distribution SGA, SGB
	Nuclear Island Drain and Vent KT
	Containment Penetrations – Piping JMK

Notes:

1. The U.S. EPR subscribes to the Kraftwerks Kennzeichen System (KKS) for coding and nomenclature of SSCs.
2. These systems were reviewed for the EQ Program for only the components associated with the containment isolation function.

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