

## PMSTPCOL PEmails

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**From:** Tomkins, James [jjetomkins@STPEGS.COM]  
**Sent:** Monday, May 16, 2011 12:48 PM  
**To:** Joseph, Stacy  
**Subject:** LPCF vs. LPFL  
**Attachments:** Tier 1 APP\_B.pdf

In the DCD, the official acronym for the Low Pressure Core Flooder is LPFL. I have attached the table of acronyms from Tier 1, Appendix B.

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**From:** Tomkins, James

**Created By:** jetomkins@STPEGS.COM

**Recipients:**  
"Joseph, Stacy" <Stacy.Joseph@nrc.gov>  
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## Appendix B Abbreviations and Acronyms Used in the ABWR Certified Design Material

ABS	Absolute	CRDHS	Control Rod Drive Hydraulic System
AC	Alternating Current	CRGT	Control Rod Guide Tube
AC	Atmospheric Control	CRHA	Control Room Habitability Area
ADS	Automatic Depressurization System	CS	Containment Spray
AFPC	Augmented Fuel Pool Cooling	CST	Condensate Storage Tank
AMB	Ambient	CTG	Combustion Turbine Generator
ATLM	Automated Thermal Limit Monitor	CUW	Reactor Water Cleanup
APR	Automatic Power Regulator	CV	Check Valve
APRM	Average Power Range Monitor	CV	Control Valve
ARD	Anti-Rotation Device	CVCF	Constant Voltage Constant Frequency
ARI	Alternate Rod Insertion	CW	Circulating Water
ARM	Area Radiation Monitoring		
AS	Turbine Auxiliary Steam System	DC	Direct Current
ASD	Adjustable Speed Drive	DEPSS	Drywell Equipment and Piping Support Structure
ASME Code	American Society of Mechanical Engineers, Boiler and Pressure Vessel Code	DG	Diesel Generator, Emergency
ATWS	Anticipated Transient Without Scram	DIV	Division
		D/S	Dryer and Separator
		DTM	Digital Trip Modules
		DWC	Drywell Cooling
BLDG	Building	E/B	Electrical Building
C&I	Control and Instrumentation	EAB	Exclusion Area Boundary
C/B	Control Building	EAROM	Electrically-Alterable Read-Only Memory
CBSREA	Control Building Safety-Related Equipment Area	ECCS	Emergency Core Cooling System
C/C	Cooling Coil	EDG	Emergency Diesel Generator
CAMS	Containment Atmospheric Monitoring System	EMC	Electromagnetic Compatibility
CFCAE	Condensate Feedwater and Condensate Air Extraction	EMI	Electromagnetic Interference
CFS	Condensate and Feedwater System	EMS	Essential Multiplexing System
		EPD	Electrical Power Distribution
		ESD	Electrostatic Discharge
		ESF	Engineered Safety Feature
CID	Control Interface Diagram		
CIV	Combined Intermediate Valve	FCS	Flammability Control System
CMP	Configuration Management Plan	FCU	Fan Coil Unit
CMU	Control Room Multiplexing Unit	FDWC	Feedwater Control
COL	Combined Operating License	FIV	Flow-Induced Vibration
CPS	Condensate Purification System	FMCRD	Fine Motion Control Rod Drive
CRD	Control Rod Drive	FP	Fire Protection

FPC	Fuel Pool Cooling and Cleanup		Supply
FPS	Fire Protection System	MC	Main Condenser
FW	Feedwater	M/C	Metal-Clad
		MCAE	Main Control Area Envelope
GL	Grade Level	MCC	Motor Control Center
GSC	Gland Seal Condenser	MCES	Main Condenser Evacuation System
HAZ	Heat-Affected Zone		
HCU	Hydraulic Control Unit	MCR	Main Control Room
HCW	High Conductivity Waste	MCRP	Main Control Room Panels
HECW	HVAC Emergency Cooling Water	MG	Motor Generator
HEPA	High Efficiency Particulate Air	MOV	Motor-Operated Valve
HFE	Human Factors Engineering	MPT	Main Power Transformer
HNCW	HVAC Normal Cooling Water	MRBM	Multi-Channel Rod Block Monitor
HPCF	High Pressure Core Flooder	MS	Main Steam
HPIN	High Pressure Nitrogen Gas Supply	MSIV	Main Steam Isolation Valve
HSI	Human-System Interfaces	MSL	Main Steamline
HVAC	Heating, Ventilating, and Air Conditioning	MTSV	Main Turbine Stop Valve
		MT	Main Turbine
HWH	Hot Water Heating	MUWC	Make Up Water (Condensate)
HX	Heat Exchanger	MUWP	Make Up Water (Purified)
		MWP	Makeup Water Preparation
IA	Instrument Air	NBS	Nuclear Boiler System
ICGT	In-Core Guide Tube	NEMS	Non-Essential Multiplexing System
I&C	Instrumentation and Control		
INST	Instrumentation	NMS	Neutron Monitoring System
ISLOCA	Intersystem Loss-of-Coolant Accident	NPSH	Net Positive Suction Head
ISI	In-Service Inspection	NRHX	Non-Regenerative HX
ITAAC	Inspection, Tests, Analyses, and Acceptance Criteria	NSD	Non-Radioactive Storm Drain
ITP	Initial Test Program	OGS	Off-Gas System
IV	Intercept Valve	OLU	Output Logic Unit
ISV	Intercept Stop Valve	OPRM	Oscillating Power Range Monitor
LCP	Local Control Panels	OSC	Operational Support Center
LCW	Low Conductivity Waste	OST	Oil Storage and Transfer
LD	Load Driver		
LDS	Leak Detection and Isolation System	P/C	Power Center
LOCA	Loss-of-Coolant Accident	PASS	Post-Accident Sampling System
LOPP	Loss of Preferred Power	PCHS	Power Cycle Heat Sink
LPFL	Low Pressure Core Flooder	PCS	Primary Containment System
LPMS	Loose Parts Monitoring System	PIP	Plant Investment Protection
LPRM	Local Power Range Monitor	PMG	Plant Main Generator
LPZ	Low Population Zone	PRM	Process Radiation Monitoring
LSPS	Lighting and Servicing Power	PROM	Programmable Read-Only Memory

PS	Pipe Space	SGTS	Standby Gas Treatment System
PSW	Potable and Sanitary Water	SJAE	Steam Jet Air Ejectors
		SIT	Structural Integrity Test
R/B	Reactor Building	SLC	Standby Liquid Control
RAT	Reserve Auxiliary Transformer	SLU	Safety System Logic Unit
RCCV	Reinforced Concrete Containment Vessel	SMP	Software Management Plan
RCIC	Reactor Core Isolation Cooling	S/P	Suppression Pool
RCIS	Rod Control and Information System	SPC	Suppression Pool Cooling
		SPCU	Suppression Pool Cleanup
RCPB	Reactor Coolant Pressure Boundary	SPTM	Suppression Pool Temperature Monitoring
RCW	Reactor Building Cooling Water	SRNM	Startup Range Neutron Monitor
		SRV	Safety/Relief Valve
RFC	Recirculation Flow Control	SSE	Safe Shutdown Earthquake
RFI	Radio Frequency Interference	SSLC	Safety System Logic and Control
RHR	Residual Heat Removal	SSPV	Scram Solenoid Pilot Valve
RHX	Regenerative HX	STP	Simulated Thermal Power
RIP	Reactor Internal Pump	SWC	Surge Withstand Capability
RMU	Remote Multiplexing Unit	T/B	Turbine Building
RPS	Reactor Protection System	TB	Turbine Bypass
RPV	Reactor Pressure Vessel	TBS	Turbine Bypass System
RRS	Reactor Recirculation System	TCW	Turbine Building Cooling Water
RSS	Remote Shutdown System	TD	Tornado Damper
RSW	Reactor Service Water	TDH	Total Developed Head
RW/B	Radwaste Building	TGS	Turbine Gland Seal
RX	Reactor	TLU	Trip Logic Unit
		TMSL	Typical Mean Sea Level Elevation
S/B	Service Building	TN	Transmission Network
S/P	Suppression Pool	TSC	Technical Support Center
SA	Service Air	TSW	Turbine Service Water
SAM	Sampling System		
SB&PC	Steam Bypass and Pressure Control	UAT	Unit Auxiliary Transformers
SC	Shutdown Cooling	UHS	Ultimate Heat Sink
SCRRI	Selected Control Rod Run-In	USE	Upper-Shelf Energy
SD	Storm Drain		
SD	Smoke Detector	V&V	Verification and Validation
SDC	Shutdown Cooling		

Note: These abbreviations and acronyms apply to the ABWR Certified Design Material. Other documents may use different abbreviations or acronyms.