

LIST OF NPPS - EDG TRIPS BYPASS AT VARIOUS PLANTS, BASED ON TSs AND UFSARs

[Note: Although, this Table is expected to be mostly accurate, EDG Trips bypassed should be verified against actual plant drawings.]

Sr. No.	Name of NPP	<u>TS Section; Bypassed Mode</u>	TS EDG Critical Trips List (Not bypassed)	UFSAR Section/Page; <u>Non-Critical Trips Bypass Mode</u>	UFSAR EDG <u>Critical Trips List (Not bypassed)</u>	Other EDG Trips (Non-critical) Listed in UFSAR (Bypassed)
1	Arkansas Nuclear One Unit 1 (PWR) (R-IV)	None	None	Page 8.3-8 None	(No Trips Bypassed) <u>Mechanical</u> Overspeed; Low lube oil pressure; Overcrank (fail to start); Crankcase overpressure <u>Electrical</u> differential relay; voltage restraint overcurrent; DG motoring; loss-of-field	None
2	Arkansas Nuclear One Unit 2 (PWR) (R-IV)	SR 4.8.1.1.2.c.7 During a <u>SIAS</u>	<u>Mechanical</u> engine overspeed; lube oil pressure; engine failure to start <u>Electrical</u> generator differential	Page 8.3-23 During a <u>SIAS</u>	<u>Mechanical</u> Engine overspeed; lube oil pressure; engine failure to start <u>Electrical</u> generator differential; Diesel engine shutdown relay	<u>Mechanical</u> None <u>Electrical</u> overcurrent relay with voltage restraint; loss of field relay; anti-motoring relay;

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3	Beaver Valley Unit 1 (PWR) (R-I)	<p>SR 3.8.1.9</p> <p>During Loss of voltage signal on the emergency bus [same as <u>LOOP or LOOP</u> concurrent with SIAS]</p>	<p><u>Mechanical</u> Engine overspeed,</p> <p><u>Electrical</u> Generator differential current; Generator overcurrent</p>	<p>Page 8.5-12</p> <p>No Bypass Mode Discussion [Assumed same as TS]</p>	<p><u>Mechanical</u> Overspeed</p> <p><u>Electrical</u> Gen differential; phase and ground current</p>	<p>[Addl Trips During Testing] <u>Mechanical</u> None</p> <p><u>Electrical</u> loss of generator field; and distance relaying with fault;</p>
4	Beaver Valley Unit 2 (PWR) (R-I)	<p>SR 3.8.1.9</p> <p>During Loss of voltage signal on the emergency bus [same as <u>LOOP or LOOP</u> concurrent with SIAS]</p> <p>(Same as U1)</p>	<p><u>Mechanical</u> Engine overspeed;</p> <p><u>Electrical</u> Generator differential current; Backup phase fault detection; Generator overexcitation.</p>	<p>Pages 8.3-21, -22</p> <p>No Bypass Mode discussion. [Assumed same as TS]</p>	<p><u>Mechanical</u> Overspeed</p> <p><u>Electrical</u> Gen differential, back up distance relay in combination with long time overcurrent (OC), inst. current with timer (considered same as back up phase fault); Volt/Hz for over excitation</p>	<p>[Addl Trips During Testing] <u>Mechanical</u> Not Listed</p> <p><u>Electrical</u> Reverse Power; Loss of Field; Field OC; Field Grd</p>

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5	Braidwood Units 1 and 2 (R-III) (PWR)	SR 3.8.1.13 During LOOP concurrent with ESF [SIAS]	<u>Mechanical</u> Engine overspeed <u>Electrical</u> Generator differential	Pages 8.3-11, -12, -17; & Table 8.3-7 According to Table 8.3-7, Electrical non-critical trips remain active during LOOP; Mechanical non-critical trips are bypassed on both LOOP and SIAS. Table 8.3-7, Lists trips active during Testing, LOOP and SIAS.	<u>Mechanical</u> Overspeed <u>Electrical</u> Gen differential According to FSAR page 8.3-12: * Breaker trips; diesel does not shut down on auto start caused by undervoltage (LOOP). When auto start is caused by safety injection signal (SIAS), diesel does not shut down and breaker does not trip.	<u>Mechanical</u> Engine lube oil low pressure; Turbo lube oil low pressure; Main connecting rod and Gen bearing high temperature; Turbo thrust bearing failure; Jacket water high temperature; Crank case high pressure <u>Electrical</u> Generator ground fault*; Generator overcurrent*; Generator trip*; Loss of field*; Reverse Power*; Underfrequency*;
6	Byron Units 1 and 2 (PWR) (R-III) [SAME AS BRAIDWOOD]	SR 3.8.1.13 [Same as Braidwood]	LOOP <u>concurrent</u> with ESF [SIAS] [Same as Braidwood]	[Same as Braidwood]	[Same as Braidwood]	{Same as Braidwood}

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7	Browns Ferry Units 1, 2, 3 (BWR) (R-II)	None	None	Page 8.5-4 Under Accident	<u>Mechanical</u> Overspeed; <u>Electrical</u> differential relay;	Other trips not discussed
8	Brunswick Units 1 and 2 (BWR) (R-II)	SR 3.8.1.10 During ECCS signal [SIAS]	<u>Mechanical</u> Overspeed; Low lube oil <u>Electrical</u> Gen Differential; Reverse Pwr; Loss of field; Volt-restraint Ph OC	8.3.1.1.6.2 Ch 8; Pages 11, 13 During Automatic Mode [ECCS or LOOP]	<u>Mechanical</u> Overspeed; Low lube oil <u>Electrical</u> Gen Differential; Reverse Pwr; Loss of field; Volt-restraint Ph OC	<u>Mechanical</u> None <u>Electrical</u> Grd Fault Current (Alarm); Underfrequency; Overvoltage

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9	Callaway (PWR) (R-IV)	SR 3.8.1.13 During LOOP concurrent with SIAS.	<u>Mechanical</u> Overspeed; Low Lube Oil Pr; High crankcase pressure; Start failure relay; High jacket coolant temp <u>Electrical</u> Generator differential	Pages 8.3-11, -12 During SIS [SIAS] [Loop only?]	<u>Mechanical</u> Overspeed; Low Lube Oil Pr; High crankcase pressure; Start failure relay; High jacket coolant temp <u>Electrical</u> Generator differential	[When Testing in parallel] <u>Mechanical</u> None <u>Electrical</u> Reverse power; loss of field; generator over-excitation; overcurrent; voltage-restrained overcurrent; ground overcurrent; underfrequency

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10	Calvert Cliffs Units 1 and 2 (PWR) (R-I)	SR 3.8.1.13 During SI [SIAS]	List Deleted [See UFSAR]	Page 8.4-5 [Fairbanks] Page 8.4-8 [SACM] <u>SIAS or undervoltage [LOOP]</u>	<u>Mechanical (both Fairbanks & SACM)</u> Overspeed; Low Lube Oil Pr; Overcrank <u>Electrical (both Fairbanks & SACM)</u> Gen Differential; Gen ground (*) Only when parallel testing (**) trips only EDG Breaker	<u>Mechanical (both Fairbanks & SACM, unless noted otherwise)</u> High jacket coolant temperature; Low jacket coolant pressure; High crankcase pressure <u>Electrical (Both Fairbanks & SACM, unless noted otherwise)</u> Loss of Field* Reverse Power*; Underfrequency*; OC with voltage restraint**; Overvoltage (SACM); Excitation Faults (SACM)

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11	Catawba Units 1 and 2 (PWR) (R-II)	SR 3.8.1.13 During LOOP concurrent with ESF (SIAS)	List removed from TS [See UFSAR for List]	8.3.1.1.3.4 (Pages 8.3-13,-14) During Blackout (LOOP) or SIAS (Trips Active during Testing only)	<u>Mechanical</u> Overspeed; Low Low Lube Oil; <u>Electrical</u> Gen Differential; Voltage Controlled OC;	<u>Mechanical</u> Low Pres Turbo Oil; Low Pres Lube Oil; High Pres Crankcase; High Temp Bearings; High Temperature Lube Oil Out; High Temperature Jacket Water; High Vibration; <u>Electrical</u> Instantaneous Overcurrent; Loss of Field; Reverse Power; Ground Protection

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12	Clinton (BWR) (R-III)	SR 3.8.1.13 During ECCS [SIAS]	<u>Mechanical</u> Overspeed; Overcrank for DG1A and DG 1B <u>Electrical</u> Generator differential	Table 8.3-4 for Div. 1 & 2 DGs. & Table 8.3-18 for Div. 3 DG. During <u>LOCA</u> [Table 8.3-4 & Tables 8.3-18 provide a good list of which trips are active during Testing, LOOP, and LOCA, separately.]	<u>Mechanical</u> Overspeed; Overcrank [Div 1 & 2]; <u>Electrical</u> Gen Differential;	<u>Mechanical</u> Low Lube Oil Pr; High Coolant Temp; Overcrank [Div 3] <u>Electrical</u> Loss of Excitation; Reverse Power; Overcurrent [Div 1, & 2]; Ground Fault [Div 1 & 2]; Volt Restraint OC [Div 3]
13	Columbia Generating Station (BWR) (R-IV)	SR 3.8.1.13 During LOOP concurrent with ESF (SIAS)	<u>Mechanical</u> Overspeed; Incomplete Seq (same as Overcrank) <u>Electrical</u> Generator differential	Page 8.3-14 During accident (LOCA) [LOOP Only?]	<u>Mechanical</u> Overspeed; Incomplete Seq (same as Overcrank) <u>Electrical</u> Generator differential	<u>During Non-Emergency (such as Testing)</u> <u>Mechanical</u> Low Lube Oil Pr; High Jacket Wtr Temp <u>Electrical</u> Loss of Excitation; Reverse Current; Overcurrent; Overvoltage;

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14	Comanche Peak Units 1 and 2 (PWR) (R-IV)	SR 3.8.1.13 During LOV or SI [LOOP or SIAS]	<u>Mechanical</u> Overspeed; <u>Electrical</u> Generator differential	Pages 8.3-17, -18 Emerg - SI or UV [LOOP or SIAS]	<u>Mechanical</u> Overspeed; <u>Electrical</u> Generator differential	<u>Mechanical</u> Low Lube Oil Pr; Hi Crankcase Pr; Jacket Wtr Temp Hi; Gen Bearing High Temp; Lube Oil Temp Hi; Engine Hi Vibration; Turbo Hi Vibration; Engine Bearing High Temp; Left or Right Turbo Lo Lube Oil Pr; <u>Electrical</u> Reverse Power; Loss of Excitation; Neg Seq Current; Volt Restraint OC; Stator Grd; Field Grd; Overexcitation; Gen Neutral Gr OC; Gen Underfrequency

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15	Cooper (BWR) (R-IV)	None	None	Page VIII-5-8, -9 <u>Certain Mech Trips bypassed in Emergency Mode (Except test mode).</u> (LOOP or SIAS) [Only Non-Critical Mech Trips bypassed; All Electrical Trips remain active in LOOP & SIAS]	<u>Mechanical</u> Overspeed; Incomplete Seq (Overcrank); Crankcase overpressure <u>Electrical</u> Gen differential; Phase overcurrent; Loss-of-field; Overvoltage; Reverse Power	<u>Mechanical</u> Low Lube Pr Incomplete Seq (Overcrank); Jacket Wtr Hi Temp; Main & Connecting Rod Bearing Temp Hi; Turbo Charger Trust Bearing Fail; Turbo Charger Oil Pressure Low <u>Electrical</u> None
16	DC Cook Units 1 and 2 (PWR) (R-III)	SR 3.8.1.14 During LOV or SI [LOOP or SIAS]	<u>Mechanical</u> Overspeed; <u>Electrical</u> Generator differential	8.4 (Page 15) [LOOP or SIAS] [Other Protective Devices Active During Testing Only]	<u>Mechanical</u> Overspeed; <u>Electrical</u> Generator differential	<u>(During Testing]</u> <u>Mechanical</u> Not Listed in FSAR <u>Electrical</u> Not Listed in FSAR [Need to know list of Non-Critical Mech and Electrical Trips.]

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17	Davis Besse (PWR) (R-III)	SR 3.8.1.12 During LOV or SI <u>[LOOP or SIAS]</u>	List removed from TS [See UFSAR for List]	Pages 8.3-8, -9,-10 LOOP or SIAS [Other Protective Devices Active During Testing Only]	<u>Mechanical</u> Overspeed; <u>Electrical</u> Generator differential; Voltage Restraint OC (51V-2) [Local Manual Trip PB]	<u>Mechanical</u> Jacket Wtr Temp Hi; Crankcase Pr Hi; Low Lube Oil Pr; [Trips both engine & EDG Breaker] <u>Electrical</u> Reverse Power (32); Gen Ground (51G); Voltage Restraint OC (51V-1); Loss of Field (40); Neg Phase Seq (46); [Trips EDG Breaker]

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18	Diablo Canyon Units 1 & 2 (PWR) (R-IV)	SR 3.8.1.12 In Automatic Operation [LOOP or SIAS]	<u>Mechanical</u> Overspeed; <u>Electrical</u> Generator differential; Low Lube Pr	Pages 8.3-19, -20 LOOP or SIAS [Other Protective Devices Active During Testing Only]	<u>Mechanical</u> Overspeed; <u>Electrical</u> Generator differential; Low Lube Pr; 4.16 kV Bus Diff [Emerg Stop Switch outside DG Room]	<u>Mechanical</u> Jacket Wtr Temp Hi; Overcrank [Trips Engine and EDG Breaker] <u>Electrical</u> Loss of Field; Reverse Power; Overcurrent;
19	Dresden Units 2 & 3 (BWR) (R-III)	SR 3.8.1.14 In LOV or ECCS [LOOP or SIAS]	<u>Mechanical</u> Engine overspeed <u>Electrical</u> Generator differential	Pages 8.3-10, -11 In Automatic Start [LOOP or SIAS]	<u>Mechanical</u> Engine overspeed <u>Electrical</u> Generator differential [Other Protective Devices Active During Manual Start or Testing Only]	<u>Mechanical</u> Hi Engine Temp; Low Water Pr; Low Bearing Oil Pr; High Crankcase Pr <u>Electrical</u> Underfrequency; Loss of Field; Gen Ground Fault; Gen Overcurrent; Reverse Power

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20	(Joseph) Farley Units 1 & 2 (PWR) (R-II)	SR 3.8.1.11 In LOV or ESF [LOOP or SIAS]	<u>Mechanical</u> Engine overspeed; Low Lube Oil Pr <u>Electrical</u> Generator differential	Page 8.3-11, -12 In Emergency Mode [LOOP or SIAS] [Except Testing]	<u>Mechanical</u> Engine overspeed; Low Lube Oil Pr <u>Electrical</u> Generator differential	<u>Mechanical</u> Hi Jacket Wtr Temp; Hi Lubrication Temp; Jacket Wtr Pr Low; Crankcase Pr High <u>Electrical</u> Underfrequency; Reverse Power; Loss of Excitation; Gen Overcurrent
21	Fermi 2 (BWR) (R-III)	SR 3.8.1.12 Emerg Start Sig [LOOP or SIAS]	<u>Mechanical</u> Engine overspeed; Low Lube Oil Pr; Crankcase Overpressure; Fail to Start <u>Electrical</u> Generator differential	Page 8.3-10 TABLE 8.3-12 [LOOP or SIAS] [No Bypass under Testing Only]	<u>Mechanical</u> Engine overspeed; Low Lube Oil Pr; Crankcase Overpressure; Fail to Start <u>Electrical</u> Generator differential	<u>Mechanical</u> Lube Oil Temp Hi; Jacket Coolant Temp High; Jacket Coolant Pr or Level Low; <u>Electrical</u> Overvoltage or Ground Fault; Field Fail; Fuel Oil Pr Low; Exciter Trip (Loss of Excitation)

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22	(James) FitzPatrick (BWR) (R-I)	None	None	Page 8.6-6 Bypass if LOCA [SIAS]	<u>Mechanical</u> Engine overspeed; <u>Electrical</u> Generator differential; Gen Phase OC Loss of Field; Reverse Pwr	<u>Mechanical</u> Lube Oil Pr; <u>Electrical</u> High Jacker Wtr Temp;
23	(R.E) Ginna (PWR) (R-I)	SR 3.8.1.8 During SI [SIAS]	<u>Mechanical</u> Engine overspeed; Low Lube Oil Pr; Start Fail (Overcrank) <u>Electrical</u> None (480 V EDG)	Page 32 of Ch 8 During SI [SIAS]	<u>Mechanical</u> Engine overspeed; Low Lube Oil Pr; Start Fail (Overcrank) <u>Electrical</u> None (No Gen Diff – 480V DG)	<u>Mechanical</u> None <u>Electrical</u> Reverse Power; Overcurrent

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24	Grand Gulf 1 (BWR) (R-IV)	SR 3.8.1.13 ECCS Signal [SIAS]	<u>List removed from TS</u> [See UFSAR for List]	Page 8.3-13 During Emergency Op [LOOP or SIAS] [No Bypass under Testing]	<u>Mechanical</u> Engine overspeed <u>Electrical</u> Generator differential	<u>Mechanical</u> Jacket Wtr Temp High; Engine Bearing High Temp; Low Turbo Oil Pr; High Vibration; Hi Temp Lube Oil; Hi Crankcase Pr; Lo Lube Oil Pr; Loss of Control Air <i>[Both Engine & EDG Breaker Tripped]</i> <u>Electrical</u> <i>[EDG Breaker Tripped]</i> Volt Controlled OC; Gen Underfreq; [Loss of excitation, or Reverse Pwr when in Parallel; Gen Grd OC <i>(also trip engine)</i>]

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25	(Shearon) Harris (PWR) (R-II)	SR 4.8.1.1.2.13 During LOOP concurrent with SI [SIAS]	Mechanical Engine Overspeed; Electrical Generator differential; Emergency Bus Differential; Loss of Gen Potential	Page 8.3.1-12b, 13 During LOOP or with Accident [LOOP or SIAS]	Mechanical Engine Overspeed; Electrical Generator differential; Emergency Bus Differential; Loss of Gen Potential	Mechanical Low Lube Oil Pr; High Jacket Wtr Temp; High Gen or Engine Bearing Temp; High Crankcase Pr; High Lube Oil Temp; Low Jacket Wtr Pr; Low Turbo Oil Pr; Excessive Turbo or Engine Vibrations; Electrical [When in testing] Loss of excitation; Gen Neg Sequence; Gen Overcurrent; Reverse Power;

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26	(Edwin) Hatch Units 1 & 2 (BWR) (R-II)	SR 3.8.1.11 During LOOP concurrent with ECCS [SIAS]	List removed from TS [See UFSAR for List]	Pages 8.3.7,-9 & Table 8.3-9 Table 8.3-10 MODE SELECT in NORM/TEST NORM Position for automatic start (LOOP or SIAS)	<u>Mechanical</u> Engine Overspeed; Low Lube Oil Pr Start Fail <u>Electrical</u> Generator differential;	<u>Mechanical</u> Lube Oil Temp Hi; Jacket Coolant Temp Hi; Jacket Coolant Pr Low; Crankcase Pressure High <u>Electrical</u> Overcurrent with Volt Rest (trips only EDG Bkr); Loss of Excitation (trips LO & VR); Reverse Power; (trips LO & VR)
27	Hope Creek 1 (BWR) (R-I)	SR 4.8.1.1.2.h.7 During LOOP concurrent with ECCS [SIAS]	<u>Mechanical</u> Engine Overspeed; Low Lube Oil Pr <u>Electrical</u> Generator differential; Emergency Bus Differential;	8.3.1.1.3.3 Pages 8.3-30, -31,-32 Non-Critical Trips in Testing Only. (LOOP or SIAS)	<u>Mechanical</u> Engine Overspeed; Low Lube Oil Pr; <u>Electrical</u> Generator differential; Emergency Bus Differential; Overcurrent	<u>Mechanical</u> None <u>Electrical</u> EDG Beaker Tripped Reverse Power; Low Field Current (Loss of Field); Overexcitation

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28	LaSalle Units 1 and 2 (BWR) (R-III)	SR 3.8.1.13 During ECCS [SIAS]	<u>Mechanical</u> Engine overspeed; <u>Electrical</u> Generator differential	Table 8.3-2 During SI [SIAS]	<u>Mechanical</u> Engine overspeed; <u>Electrical</u> Generator differential	<u>Mechanical</u> None <u>Electrical</u> Gen Neutral Grd; Reverse Power; Phase Overcurrent; Loss of Field; Underfrequency
29	Limerick Units 1 and 2 (BWR) (R-I)	SR 4.8.1.1.2.e.7 During ECCS [SIAS]	<u>Mechanical</u> Engine overspeed; <u>Electrical</u> Generator differential	Page 8.3-15 During LOCA [SIAS]	<u>Mechanical</u> Engine overspeed; Fail to Start <u>Electrical</u> Generator differential; Bus Differential	<u>Mechanical</u> Jacket Coolant High Temp; Jacket Coolant Low Pr; Lube Oil High Temp; Lube Oil Low Pr <u>Electrical</u> Phase Overcurrent; Gen Grd Neutral OC; Anti-motoring (reverse power); 4 kV Bus Phase OC; 4 kV Bus Ground OC

LIST OF NPPS - EDG TRIPS BYPASS AT VARIOUS PLANTS, BASED ON TSs AND UFSARs

[Note: Although, this Table is expected to be mostly accurate, EDG Trips bypassed should be verified against actual plant drawings.]

Sr. No.	Name of NPP	<u>TS Section; Bypassed Mode</u>	TS EDG Critical Trips List (Not bypassed)	UFSAR Section/Page; <u>Non-Critical Trips Bypass Mode</u>	UFSAR EDG <u>Critical</u> Trips List (<u>Not bypassed</u>)	Other EDG Trips (Non-critical) Listed in UFSAR (Bypassed)
30	McGuire Units 1 & 2 (PWR) (R-II)	SR 3.8.1.13 LOOP concurrent with ESF [SIAS]	List removed from TS [See UFSAR for List]	Pages 8.3-8,-9 Only critical trips available at all times. Assumed non-critical trips bypassed during LOOP	<u>Mechanical</u> [During ESF] Engine overspeed; Low Lube Oil Pr; <u>Electrical</u> [During ESF] Generator differential; Volt Controlled OC	<u>Mechanical</u> [Addl Engine Trip during Testing] Jacket Water Temp; Jacket Water Level; Jacket Water Pr; Crankcase Vapor Pr; Lube Oil Temp; <u>Electrical</u> [Trips the EDG Breaker but not Engine, Why?] Ground Fault; Loss of Field Excitation; Neg Sequence; Reverse Power; Over Excitation (V/Hz); Inst & Def. Time OC

LIST OF NPPS - EDG TRIPS BYPASS AT VARIOUS PLANTS, BASED ON TSs AND UFSARs

[Note: Although, this Table is expected to be mostly accurate, EDG Trips bypassed should be verified against actual plant drawings.]

Sr. No.	Name of NPP	<u>TS Section; Bypassed Mode</u>	TS EDG Critical Trips List (Not bypassed)	UFSAR Section/Page; <u>Non-Critical Trips Bypass Mode</u>	UFSAR EDG <u>Critical</u> Trips List (<u>Not bypassed</u>)	Other EDG Trips (Non-critical) Listed in UFSAR (Bypassed)
31	Millstone Unit 2 (PWR) (R-I)	SR 4.8.1.1.2.c.6 LOOP concurrent with ESF [SIAS]	<u>Mechanical</u> Engine overspeed; Low Lube Oil Pr <u>Electrical</u> Generator differential; Volt Restraint OC;	Pages 8.3-8,-9 During Emergency Non-Critical Prot trip during testing only. [LOOP or SIAS]	<u>Mechanical</u> Engine overspeed; Low Lube Oil Pr <u>Electrical</u> Generator differential; Volt Restraint OC (Trips EDG breaker);	<u>Mechanical</u> (Trip during Testing) Jacket Wtr Pr Low; Crankcase Pr Hi; Fuel Oil Pr Low; <u>Electrical</u> (Trip during Testing) Reverse Power; Inst Overcurrent; Core balance ground;
32	Millstone Unit 3 (PWR) (R-I)	SR 4.8.1.1.2.g.6.c LOOP concurrent with ESF [SIAS]	<u>Mechanical</u> Engine overspeed; Low Lube Oil Pr <u>Electrical</u> Generator differential;	Pages 8.3-14,-15 During LOCA [SIAS] Non-Critical Prot trip listed during testing only. [appears to be LOOP or SIAS]	<u>Mechanical</u> Engine overspeed; Low Lube Oil Pr <u>Electrical</u> Generator differential; Load Center Phase OC (Trips EDG breaker);	<u>Mechanical</u> (EDG & EDG Breaker trip during Testing) Jacket Coolant Low Pr; Jacket Coolant High Temp; Lube Oil Temp Hi; <u>Electrical</u> Ground OC; Loss of Field; Reverse Pwr; Volt Restraint OC; Gen Overvoltage; Gen Underfreq (EDG Breaker only)

LIST OF NPPS - EDG TRIPS BYPASS AT VARIOUS PLANTS, BASED ON TSs AND UFSARs

[Note: Although, this Table is expected to be mostly accurate, EDG Trips bypassed should be verified against actual plant drawings.]

Sr. No.	Name of NPP	<u>TS Section; Bypassed Mode</u>	TS EDG Critical Trips List (Not bypassed)	UFSAR Section/Page; <u>Non-Critical Trips Bypass Mode</u>	UFSAR EDG <u>Critical</u> Trips List (<u>Not bypassed</u>)	Other EDG Trips (Non-critical) Listed in UFSAR (Bypassed)
33	Monticello (BWR) (R-III)	None	None	None	None	None
34	Nine Mile Point Unit 1 (BWR) (R-I)	None	None	None	None	None
35	Nine Mile Point Unit 2 (BWR) (R-I)	SR 3.8.1.11 LOOP concurrent with ECCS [SIAS]	<u>Mechanical</u> Engine Overspeed; <u>Electrical</u> Generator differential;	Pages 8.3-21, -22 Non-Critical Prot trip listed during testing only. [appears to be LOOP or SIAS]	<u>Mechanical</u> Engine Overspeed; <u>Electrical</u> Generator differential; Volt Controlled OC (trips only EDG breaker)	(Under test conditions) <u>Mechanical</u> Jacket Water High Temp; Lube Oil High Temp; Lube Oil Pr Low; Turbo Lube Oil Pr Low; Bearing Temp Hi; Turbo Charger Thrust Bearing Fail; High Vibrations <u>Electrical</u> Directional Ground Overcurrent; Reverse Power; Loss of Field or Pot;

LIST OF NPPS - EDG TRIPS BYPASS AT VARIOUS PLANTS, BASED ON TSs AND UFSARs

[Note: Although, this Table is expected to be mostly accurate, EDG Trips bypassed should be verified against actual plant drawings.]

Sr. No.	Name of NPP	<u>TS Section; Bypassed Mode</u>	TS EDG Critical Trips List (Not bypassed)	UFSAR Section/Page; <u>Non-Critical Trips Bypass Mode</u>	UFSAR EDG <u>Critical Trips List (Not bypassed)</u>	Other EDG Trips (Non-critical) Listed in UFSAR (Bypassed)
36	North Anna Units 1 and 2 (PWR) (R-II)	SR 3.8.1.12 When Automatic Start LOOP or [SIAS]	<u>Mechanical</u> Engine Overspeed; <u>Electrical</u> Generator differential	Pages 8.3-11,-12 During Emergency Start [LOOP or SI]	<u>Mechanical</u> Engine Overspeed; <u>Electrical</u> Generator differential; Bus Overcurrent (EDG Breaker only);	<u>Mechanical</u> Engine Overspeed; High Lube Oil Temp; Low Lube Oil Pr; High Jacket Water Temp; High Crankcase Pr; Start Failure; <u>Electrical</u> Over Excitation;
37	Palisades (PWR) (R-III)	None	None	Page 8.4-5 None	Page 8.4-5 <u>Mechanical</u> Overspeed; Low Lube Oil Pr; Low Jacket Wtr Pr; <u>Electrical</u> differential relay; overcurrent;	None

LIST OF NPPS - EDG TRIPS BYPASS AT VARIOUS PLANTS, BASED ON TSs AND UFSARs

[Note: Although, this Table is expected to be mostly accurate, EDG Trips bypassed should be verified against actual plant drawings.]

Sr. No.	Name of NPP	<u>TS Section; Bypassed Mode</u>	TS EDG Critical Trips List (Not bypassed)	UFSAR Section/Page; <u>Non-Critical Trips Bypass Mode</u>	UFSAR EDG <u>Critical</u> Trips List (<u>Not bypassed</u>)	Other EDG Trips (Non-critical) Listed in UFSAR (Bypassed)
38	Palo Verde Units 1, 2 and 3 (PWR) (R-IV)	SR 3.8.1.13 During LOOP concurrent with ESF (SIAS)	<u>Mechanical</u> Overspeed; Lube Oil Pr; <u>Electrical</u> Generator differential;	Pages 8.3-48, -49 <u>SIAS or AFAS or LOP</u>	<u>Mechanical</u> Overspeed; Lube Oil Pr; <u>Electrical</u> Generator differential;	<u>Mechanical</u> Incomplete Seq; High Jacket Coolant Temp; High Bearing Temp; High Crankcase Pr; Turbo Charger Bearing Trust Fail; Turno Charger Low Lube Oil Pr; <u>Electrical</u> Loss of Field; Gen Ground OC; Gen Volt Restr OC; Reverse Power; Volt Unbalance (Neg Seq); Underfreq;

LIST OF NPPS - EDG TRIPS BYPASS AT VARIOUS PLANTS, BASED ON TSs AND UFSARs

[Note: Although, this Table is expected to be mostly accurate, EDG Trips bypassed should be verified against actual plant drawings.]

Sr. No.	Name of NPP	<u>TS Section; Bypassed Mode</u>	TS EDG Critical Trips List (Not bypassed)	UFSAR Section/Page; <u>Non-Critical Trips Bypass Mode</u>	UFSAR EDG <u>Critical</u> Trips List (<u>Not bypassed</u>)	Other EDG Trips (Non-critical) Listed in UFSAR (Bypassed)
39	Perry (BWR) (R-III)	SR 3.8.1.13 During ECCS (SIAS)	List removed from TS [See UFSAR for List]	Pages 8.3-23,-24 LOCA or UV (LOOP)	<u>Mechanical</u> Overspeed; <u>Electrical</u> Generator differential;	<u>Mechanical</u> High Jacket Wtr Temp; High Bearing Temp; Low Turbo Charger Oil Pr; Low Lube Oil Pr; High CrankCase Pr; Lube Oil HighTemp; <u>Electrical</u> Reverse Power; Volt Controlled OC;
40	Pt. Beach Units 1 and 2 (PWR) (R-III)	None	None	Page 8.4-5 None	Page 8.4-5 <u>Mechanical</u> Overspeed; <u>Electrical</u> Tine Overcurrent; Reverse Power; Loss of Field;	None

LIST OF NPPS - EDG TRIPS BYPASS AT VARIOUS PLANTS, BASED ON TSs AND UFSARs

[Note: Although, this Table is expected to be mostly accurate, EDG Trips bypassed should be verified against actual plant drawings.]

Sr. No.	Name of NPP	<u>TS Section; Bypassed Mode</u>	TS EDG Critical Trips List (Not bypassed)	UFSAR Section/Page; <u>Non-Critical Trips Bypass Mode</u>	UFSAR EDG <u>Critical</u> Trips List (<u>Not bypassed</u>)	Other EDG Trips (Non-critical) Listed in UFSAR (Bypassed)
41	Peach Bottom Units 2 & 3 (BWR) (R-I)	SR 3.8.1.13 During ECCS (SIAS)	List removed from TS [See UFSAR for List]	Pages 8.5-3, -4 [During LOCA]	<u>Mechanical</u> Engine Overspeed; <u>Electrical</u> Generator differential;	<u>Mechanical</u> Jacket Coolant High Temp; Jacket Coolant Low Pr; Lube Oil Hi Temp; Lube Oil Low Pr; Crankcase Hi Pr; After cooler coolant Pr Low; Fuel Oil Pr Low; <u>Electrical</u> Directional Ground Overcurrent; Reverse Power; Loss of Field or Pot;
42	Prairie Island Units 1 & 2 (PWR) (R-III)	SR 3.8.1.8 During SI [SIAS]	<u>Mechanical</u> Engine overspeed; <u>Electrical</u> Gen Differential; Grd Fault (U1 only);	Page 8.8-5 [Bypass if MCA relay is closed?] [Bypass mode not explained or provided.]	<u>Mechanical</u> <u>Electrical</u> [Details are not provided in FSAR]	<u>Mechanical</u> <u>Electrical</u> [Details are not provided in FSAR]

LIST OF NPPS - EDG TRIPS BYPASS AT VARIOUS PLANTS, BASED ON TSs AND UFSARs

[Note: Although, this Table is expected to be mostly accurate, EDG Trips bypassed should be verified against actual plant drawings.]

Sr. No.	Name of NPP	<u>TS Section; Bypassed Mode</u>	TS EDG Critical Trips List (Not bypassed)	UFSAR Section/Page; <u>Non-Critical Trips Bypass Mode</u>	UFSAR EDG <u>Critical</u> Trips List (<u>Not bypassed</u>)	Other EDG Trips (Non-critical) Listed in UFSAR (Bypassed)
43	Quad Cities Units 1 and 2 (BWR) (R-III)	SR 3.8.1.14 LOOP concurrent with ECCS [SIAS]	<u>Mechanical</u> Engine Overspeed; <u>Electrical</u> Generator differential;	Pages 8.3-9 Non-Critical Trips Bypassed in Automatic Mode (LOOP or SIAS)	<u>Mechanical</u> Engine Overspeed; <u>Electrical</u> Generator differential;	(Under test/Manual Mode) <u>Mechanical</u> High Engine Temp; Low Cooling Wtr Pr; High Crankcase Pr; Low Main Bearing Oil Pr; <u>Electrical</u> None;
44	River Bend Unit 1 (BWR) (R-IV)	SR 3.8.1.13 During ECCS [SIAS]	<u>Mechanical</u> Engine Overspeed; <u>Electrical</u> Generator differential;	Pages 8.3-14 Non-Critical Bypassed in Emergency Mode (UV/LOOP or LOCA)	<u>Mechanical</u> Engine Overspeed; <u>Electrical</u> Generator differential;	(When No LOCA) <u>Mechanical</u> Lube and Jacket Wtr High Temp; <u>Electrical</u> None;

LIST OF NPPS - EDG TRIPS BYPASS AT VARIOUS PLANTS, BASED ON TSs AND UFSARs

[Note: Although, this Table is expected to be mostly accurate, EDG Trips bypassed should be verified against actual plant drawings.]

Sr. No.	Name of NPP	<u>TS Section; Bypassed Mode</u>	TS EDG Critical Trips List (Not bypassed)	UFSAR Section/Page; <u>Non-Critical Trips Bypass Mode</u>	UFSAR EDG <u>Critical</u> Trips List (<u>Not bypassed</u>)	Other EDG Trips (Non-critical) Listed in UFSAR (Bypassed)
45	(H.B.) Robinson Unit 2 (PWR) (R-II)	SR 3.8.1.11 Per TS Based during DBAs [SIAS]	<u>Mechanical</u> Engine Overspeed; <u>Electrical</u> None [480 V EDGs]	Page 8.3.1-4 Controlled by SW for testing [LOOP or SIAS]	<u>Mechanical</u> Engine overspeed; <u>Electrical</u> None	<u>Mechanical</u> [Under Test Mode] High Crankcase Pr; High Jacket Wtr Temp; Low Jacket Wtr Pr; <u>Electrical</u> None
46	St. Lucie Unit 1 (PWR) (R-II)	SR 4.8.1.1.2.e.5c LOOP <u>concurrent</u> with SI [SIAS]	<u>Mechanical</u> Engine Overspeed; <u>Electrical</u> Generator differential;	Pages 8.3-9, -10 Non-Critical Bypassed in <u>LOOP or</u> <u>SIAS</u>	<u>Mechanical</u> Engine Overspeed; <u>Electrical</u> Generator differential;	<u>During Testing</u> <u>Mechanical</u> Low Engine Oil Pr; Hi Engine Wtr Temp; High Crankcase Pr; <u>Electrical</u> Generator OC; Reverse Power; Loss of Excitation

LIST OF NPPS - EDG TRIPS BYPASS AT VARIOUS PLANTS, BASED ON TSs AND UFSARs

[Note: Although, this Table is expected to be mostly accurate, EDG Trips bypassed should be verified against actual plant drawings.]

Sr. No.	Name of NPP	<u>TS Section; Bypassed Mode</u>	TS EDG Critical Trips List (Not bypassed)	UFSAR Section/Page; <u>Non-Critical Trips Bypass Mode</u>	UFSAR EDG <u>Critical</u> Trips List (<u>Not bypassed</u>)	Other EDG Trips (Non-critical) Listed in UFSAR (Bypassed)
47	St. Lucie Unit 2 (PWR) (R-II)	SR 4.8.1.1.2.e.6c LOOP concurrent with SI [SIAS]	<u>Mechanical</u> Engine Overspeed; <u>Electrical</u> Generator differential;	Pages 8.3-14, -15 Non-Critical Bypassed in LOOP or SIAS	<u>Mechanical</u> Engine Overspeed; <u>Electrical</u> Generator differential;	During Testing <u>Mechanical</u> Low Engine Oil Pr; Hi Engine Wtr Temp; High Crankcase Pr; <u>Electrical</u> Generator OC; Reverse Power; Loss of Excitation
48	Salem Units 1 and 2 (PWR) (R-I)	SR 4.8.1.1.2.e.6c LOOP concurrent with SI [SIAS]	<u>Mechanical</u> Engine Overspeed; Low Lube Oil Pr; <u>Electrical</u> Generator differential; 4 kV Bus Differential	Pages 8.3-9, -10, -11 During Emergency Start [LOOP or SIAS]	<u>Mechanical</u> Engine Overspeed; Low Lube Oil Pr; <u>Electrical</u> Generator differential; 4 kV Bus Differential (Trip EDG Breaker Only);	During Manual Mode <u>Mechanical</u> ; Jacket Wtr High Temp; Lube Oil Temp Hi; Engine OverCrank <u>Electrical</u> Loss of Excitation; EDG Breaker Fail; Overcurrent (EDG Bkr Only); Reverse Pwr (EDG Bkr Only);

LIST OF NPPS - EDG TRIPS BYPASS AT VARIOUS PLANTS, BASED ON TSs AND UFSARs

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Sr. No.	Name of NPP	<u>TS Section; Bypassed Mode</u>	TS EDG Critical Trips List (Not bypassed)	UFSAR Section/Page; <u>Non-Critical Trips Bypass Mode</u>	UFSAR EDG <u>Critical</u> Trips List (<u>Not bypassed</u>)	Other EDG Trips (Non-critical) Listed in UFSAR (Bypassed)
49	Seabrook (PWR) (R-I)	SR 4.8.1.1.2.e.6c LOOP concurrent with SI [SIAS]	Mechanical Engine Overspeed; Low Lube Oil Pr; Electrical Generator differential; 4 kV Bus Differential	Pages 8.3-25, -26 During Emergency Start [LOOP or SIAS]	Mechanical Engine Overspeed; Low Lube Oil Pr; Electrical Generator differential; 4 kV Bus Differential	Mechanical; High Lube Oil Temp; High Jacket Coolant Temp; Electrical Gen Overcurrent; Reverse Power; Loss of Field
50	Sequoyah Units 1 and 2 (PWR) (R-II)	SR 3.8.1.13 LOOP or SIAS	List removed from TS [See UFSAR for List]	Pages 8.3,7, - 8 During Emergency [LOOP or SIAS]	Mechanical Engine Overspeed; Electrical Generator differential;	[During Excercing in parallel mode] Mechanical Low Lube Oil Pr; High Jacket Wtr Temp; Electrical Instantaneous OC; Phase Balance; Reverse Power; Loss of Field

LIST OF NPPS - EDG TRIPS BYPASS AT VARIOUS PLANTS, BASED ON TSs AND UFSARs

[Note: Although, this Table is expected to be mostly accurate, EDG Trips bypassed should be verified against actual plant drawings.]

Sr. No.	Name of NPP	<u>TS Section; Bypassed Mode</u>	TS EDG Critical Trips List (Not bypassed)	UFSAR Section/Page; <u>Non-Critical Trips Bypass Mode</u>	UFSAR EDG <u>Critical</u> Trips List (<u>Not bypassed</u>)	Other EDG Trips (Non-critical) Listed in UFSAR (Bypassed)
51	South Texas Units 1 and 2 (PWR) (R-IV)	SR 4.8.1.1.2.e.6c LOOP concurrent with SI [SIAS]	<u>Mechanical</u> Engine Overspeed; Low Lube Oil Pr; <u>Electrical</u> Generator differential;	Pages 8.3-13, -14 During Emergency Start [LOOP or SIAS]	<u>Mechanical</u> Engine Overspeed; Low Lube Oil Pr; <u>Electrical</u> Generator differential;	During Periodic Testing <u>Mechanical</u> ; Excess Vibration; Turbo Charger Thrust Bearing Fail; High Jacket Wtr Temp; High Engine/Gen Bearing Temp; <u>Electrical</u> Reverse Power; Loss of Field; Gen Overcurrent; Gen Underfreq; Ground Fault; Negative Sequence;

LIST OF NPPS - EDG TRIPS BYPASS AT VARIOUS PLANTS, BASED ON TSs AND UFSARs

[Note: Although, this Table is expected to be mostly accurate, EDG Trips bypassed should be verified against actual plant drawings.]

Sr. No.	Name of NPP	<u>TS Section; Bypassed Mode</u>	TS EDG Critical Trips List (Not bypassed)	UFSAR Section/Page; <u>Non-Critical Trips Bypass Mode</u>	UFSAR EDG <u>Critical</u> Trips List (<u>Not bypassed</u>)	Other EDG Trips (Non-critical) Listed in UFSAR (Bypassed)
52	(V.C.) Summer (PWR) (R-II)	SR 4.8.1.1.2.g.6c LOOP concurrent with SI [SIAS]	<u>Mechanical</u> Engine Overspeed; Low Lube Oil Pr; <u>Electrical</u> Generator differential;	Page 8.3-12; Table 8.3-3a; UV or ESF [LOOP or SIAS]	<u>Mechanical</u> Engine Overspeed; Low Lube Oil Pr; <u>Electrical</u> Generator differential;	During Testing <u>Mechanical</u> ; [Trips Engine & EDG Breaker] Crankcase High Pr; Lube Oil Temp; Jacket Coolant HighTemp; <u>Electrical</u> [Trip EDG Breaker] Reverse Power; Ground OC; Volt Controlled OC; Negative Sequence; Field Fail;
53	Surry Units 1 and 2 (PWR) (R-II)	None	None	Page 8.5-4 None	Page 8.5-4 <u>Mechanical</u> Overspeed; <u>Electrical</u> Gen differential; Gen Overcurrent;	None

LIST OF NPPS - EDG TRIPS BYPASS AT VARIOUS PLANTS, BASED ON TSs AND UFSARs

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Sr. No.	Name of NPP	<u>TS Section; Bypassed Mode</u>	TS EDG Critical Trips List (Not bypassed)	UFSAR Section/Page; <u>Non-Critical Trips Bypass Mode</u>	UFSAR EDG <u>Critical</u> Trips List (<u>Not bypassed</u>)	Other EDG Trips (Non-critical) Listed in UFSAR (Bypassed)
54	Susquehanna Units 1 and 2 (BWR) (R-I)	SR 3.8.1.13 LOOP concurrent with ECCS [SIAS]	<u>Mechanical</u> Engine Overspeed; Low Lube Oil Pr; <u>Electrical</u> Generator differential;	Pages 8.3-18, -19 Automatic Mode (LOOP or SIAS)	<u>Mechanical</u> Engine Overspeed; Low Lube Oil Pr; <u>Electrical</u> Generator differential; [Trip EDG Breaker Only] Volt Restrained OC; 4 kV Bus Differential;	<u>(Under Test Mode)</u> <u>Mechanical</u> Turbo Lube Oil Pr Low; Main & Connecting Rod Bearing Temp High; Engine Vibration; Turbo Thrust Bearing Fail; Jacket Water Temp High; <u>Electrical</u> Loss of Field; Overexcitation; Reverse Power; Underfrequency; Overvoltage; Gen High Bearing Temp;

LIST OF NPPS - EDG TRIPS BYPASS AT VARIOUS PLANTS, BASED ON TSs AND UFSARs

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Sr. No.	Name of NPP	<u>TS Section; Bypassed Mode</u>	TS EDG Critical Trips List (Not bypassed)	UFSAR Section/Page; <u>Non-Critical Trips Bypass Mode</u>	UFSAR EDG <u>Critical Trips List (Not bypassed)</u>	Other EDG Trips (Non-critical) Listed in UFSAR (Bypassed)
55	Turkey Point Units 3 and 4 (PWR) (R-II)	SR 4.8.1.1.2.g.6c LOOP concurrent with ESF [SIAS]	<u>Mechanical</u> Trips made operable during Test Bypassed [See FSAR] <u>Electrical</u> Trips made operable during Test Bypassed [See FSAR]	Pages 8.2-9, -10 Under Emerg Operation [LOOP or SIAS]	<u>Mechanical</u> Engine Overspeed; <u>Electrical</u> Generator differential;	Other than Emerg (During Testing) <u>Mechanical</u> ; Low Low Lube Oil Pr; [Page 9.15-35] <u>Electrical</u> Gen Overcurrent; Loss of Excitation; Reverse Power; Underfrequency;

LIST OF NPPS - EDG TRIPS BYPASS AT VARIOUS PLANTS, BASED ON TSs AND UFSARs

[Note: Although, this Table is expected to be mostly accurate, EDG Trips bypassed should be verified against actual plant drawings.]

Sr. No.	Name of NPP	<u>TS Section; Bypassed Mode</u>	TS EDG Critical Trips List (Not bypassed)	UFSAR Section/Page; <u>Non-Critical Trips Bypass Mode</u>	UFSAR EDG <u>Critical</u> Trips List (<u>Not bypassed</u>)	Other EDG Trips (Non-critical) Listed in UFSAR (Bypassed)
56	Vogtle Units 1 and 2 (PWR) (R-II)	SR 3.8.1.12 LOOP concurrent with SI [SIAS]	<u>Mechanical</u> Engine Overspeed; Low Lube Oil Pr; <u>Electrical</u> Generator differential;	Pages 8.3-9, -10 Separate Trips Listed for SIAS, LOOP Only, and Testing Trips Under SIAS match TS.	<u>[During SIAS/LOOP concurrent with SIAS]</u> <u>Mechanical</u> Engine Overspeed; Low Lube Oil Pr; <u>Electrical</u> Generator differential; <u>[During LOOP Only]</u> <u>Mechanical</u> None <u>Electrical</u> Loss of Field Voltage Controlled Phase OC;	[Addl Trips during Testing only] <u>Mechanical</u> ; High Jacket Coolant Temp; High Temp Lube Oil; Low Jacket Coolant Pr; Vibrations; Low Turbo Charger Oil Pr; High Crank Case Pr; <u>Electrical</u> Underfrequency* Reverse Power* Negative Seq* *during parallel testing only.

LIST OF NPPS - EDG TRIPS BYPASS AT VARIOUS PLANTS, BASED ON TSs AND UFSARs

[Note: Although, this Table is expected to be mostly accurate, EDG Trips bypassed should be verified against actual plant drawings.]

Sr. No.	Name of NPP	<u>TS Section; Bypassed Mode</u>	TS EDG Critical Trips List (Not bypassed)	UFSAR Section/Page; <u>Non-Critical Trips Bypass Mode</u>	UFSAR EDG <u>Critical</u> Trips List (<u>Not bypassed</u>)	Other EDG Trips (Non-critical) Listed in UFSAR (Bypassed)
57	Waterford 3 (PWR) (R-IV)	SR 4.8.1.1.2.e.5c LOOP concurrent with ESF [SIAS]	<u>Mechanical</u> Engine Overspeed; <u>Electrical</u> Generator differential;	Pages 8.3-13 LOOP or ESF [SIAS]	<u>Mechanical</u> Engine Overspeed; <u>Electrical</u> Generator differential;	Other than LOOP or ESF <u>Mechanical</u> ; Jacket Wtr High Temp [Page 9.5-259]; Engine Low Lube Oil Pr; Turbo Low Lube Oil Pr; [Page 9.5-264, -265]; <u>Electrical</u> Voltage Controlled Overcurrent; Loss of Excitation; Reverse Power;
58	Watts Bar 1 & 2 (PWR) (R-II)	SR 3.8.1.13 Automatic or Emerg Start [LOOP or SIAS]	<u>Mechanical</u> Engine Overspeed; <u>Electrical</u> Generator differential;	Pages 8.3-10, -11 Automatic Mode (LOOP or SIAS)	<u>Mechanical</u> Engine Overspeed; <u>Electrical</u> Generator differential;	(Under Test Mode) <u>Mechanical</u> Crankcase Pr; Low Lube Oil Pr; High Jacket Wtr Temp; <u>Electrical</u> Phase Balance Relay; Reverse Power; Loss of Field

LIST OF NPPS - EDG TRIPS BYPASS AT VARIOUS PLANTS, BASED ON TSs AND UFSARs

[Note: Although, this Table is expected to be mostly accurate, EDG Trips bypassed should be verified against actual plant drawings.]

Sr. No.	Name of NPP	<u>TS Section; Bypassed Mode</u>	TS EDG Critical Trips List (Not bypassed)	UFSAR Section/Page; <u>Non-Critical Trips Bypass Mode</u>	UFSAR EDG <u>Critical</u> Trips List (<u>Not bypassed</u>)	Other EDG Trips (Non-critical) Listed in UFSAR (Bypassed)
59	Wolf Creek 1 (PWR) (R-IV)	SR 3.8.1.13 LOOP concurrent with ESF [SIAS]	<u>Mechanical</u> Engine Overspeed; Low Lube Oil Pr; High Crankcase Pr; Start Fail Relay; High Jacket Coolant Temp; <u>Electrical</u> Generator differential;	Pages 8.3-11,-12 LOOP or ESF [SIAS]	<u>Mechanical</u> Engine Overspeed; Low Lube Oil Pr; High Crankcase Pr; Start Fail Relay; High Jacket Coolant Temp; <u>Electrical</u> Generator differential	During Testing <u>Mechanical</u> ; None <u>Electrical</u> [During parallel testing] Reverse Power; Loss of Field; Overcurrent; Voltage Restraint OC; Ground Overcurrent; Overexcitation; Underfrequency;