

Comparison of 2017 and 2018 Risk Elements



Summary of Risk Elements

2016 RISK ELEMENTS

ELEMENT	STDS	REQS
Critical Infrastructure Protection	4	11
Extreme Physical Events	2	4
Maintenance and Management of BPS Assets	2	4
Monitoring and Situational Awareness	2	5
Protection System Failures	2	5
Event Response/Recovery	2	7
Planning and System Analysis	3	7
Human Performance	2	3
2016 Total	19	46

2017 RISK ELEMENTS

ELEMENT	STDS	REQS
Critical Infrastructure Protection	4	11
Extreme Physical Events	2	5
Maintenance and Management of BPS Assets	3	8
Monitoring and Situational Awareness	4	9
Protection System Failures	3	7
Event Response/Recovery	5	12
Planning and System Analysis	4	9
Human Performance	2	3
2017 Total	27	64

2018 RISK ELEMENTS

ELEMENT	STDS	REQS
Critical Infrastructure Protection	4	11
Extreme Physical Events	3	9
Maintenance and Management of BPS Assets	3	8
Monitoring and Situational Awareness	7	17
Protection System Failures	3	7
Event Response/Recovery	6	11
Planning and System Analysis	10	20
Human Performance	3	6
2018 Total	39	89

Comparison of 2017 and 2018 Risk Elements

2017 TABLE 2 : CRITICAL INFRASTRUCTURE PROTECTION

STANDARD	REQUIREMENTS	ENTITIES FOR ATTENTION	ASSET TYPES
CIP-002-5.1	R1, R2	Balancing Authority	Backup Control Centers
		Distribution Provider	Control Centers
		Generator Operator	Data Centers
		Generator Owner	Generation Facilities
		Reliability Coordinator	Substations
		Transmission Operator	
CIP-005-5	R1, R2	Balancing Authority	Backup Control Centers
		Distribution Provider	Control Centers
		Generator Operator	Data Centers
		Generator Owner	Generation Facilities
		Reliability Coordinator	Substations
		Transmission Operator	
CIP-006-6	R1, R2, R3	Balancing Authority	Backup Control Centers
		Distribution Provider	Control Centers
		Generator Operator	Data Centers
		Generator Owner	Generation Facilities
		Reliability Coordinator	Substations
		Transmission Operator	
CIP-007-6	R1, R2, R3, R5	Balancing Authority	Backup Control Centers
		Distribution Provider	Control Centers
		Generator Operator	Data Centers
		Generator Owner	Generation Facilities
		Reliability Coordinator	Substations
		Transmission Operator	

2018 TABLE 2 : CRITICAL INFRASTRUCTURE PROTECTION

STANDARD	REQUIREMENTS	INACTIVE/FUTURE ENFORCEMENT DATE	ENTITIES FOR ATTENTION
CIP-002-5.1	R1, R2	N/A	Balancing Authority
			Distribution Provider
			Generator Operator
			Generator Owner
			Reliability Coordinator
			Transmission Operator
CIP-005-5	R1, R2	N/A	Balancing Authority
			Distribution Provider
			Generator Operator
			Generator Owner
			Reliability Coordinator
			Transmission Operator
CIP-006-6	R1, R2, R3	N/A	Balancing Authority
			Distribution Provider
			Generator Operator
			Generator Owner
			Reliability Coordinator
			Transmission Operator
CIP-007-6	R1, R2, R3, R5	N/A	Balancing Authority
			Distribution Provider
			Generator Operator
			Generator Owner
			Reliability Coordinator
			Transmission Operator

2017 TABLE 3: EXTREME PHYSICAL EVENTS

STANDARD	REQUIREMENTS	INACTIVE ENFORCEMENT DATE	ENTITIES FOR ATTENTION
EOP-010-1	R1, R3	N/A	Reliability Coordinator Transmission Operator
CIP-014-2	R1, R2, R3	N/A	Transmission Owner

2018 TABLE 3: EXTREME PHYSICAL EVENTS

STANDARD	REQUIREMENTS	INACTIVE ENFORCEMENT DATE	ENTITIES FOR ATTENTION
EOP-010-1	R1, R3	N/A	Reliability Coordinator Transmission Operator
CIP-014-2	R1, R2, R3, R4, R5, R6	N/A	Transmission Owner
TPL-007-1	R1	N/A	Planning Coordinator Transmission Planner

2017 TABLE 4: MAINTENANCE & MANAGEMENT OF BPS ASSETS

STANDARD	REQUIREMENTS	INACTIVE ENFORCEMENT DATE	ENTITIES FOR ATTENTION
FAC-008-3	R 6	N/A	Generator Owner Transmission Owner
PRC-005-6	R3, R4, R5	N/A	Distribution Provider Generator Owner Transmission Owner
FAC-003-4	R1, R2, R6, R7	N/A	Generator Owner Transmission Owner

2018 TABLE 4: MAINTENANCE & MANAGEMENT OF BPS ASSETS

STANDARD	REQUIREMENTS	INACTIVE ENFORCEMENT DATE	ENTITIES FOR ATTENTION
FAC-008-3	R6	N/A	Generator Owner Transmission Owner
FAC-003-4	R1, R2, R6, R7	N/A	Generator Owner Transmission Owner
PRC-005-6	R3, R4, R5	N/A	Distribution Provider Generator Owner Transmission Owner

2017 TABLE 5: MONITORING AND SITUATIONAL AWARENESS

STANDARD	REQUIREMENTS	INACTIVE ENFORCEMENT DATE	ENTITIES FOR ATTENTION
IRO-005-3.1a	R1, R2	03/31/2017	Reliability Coordinator
IRO-002-4*	R3, R4	04/01/2017	Reliability Coordinator
TOP-006-2	R1, R2, R7	03/31/2017	Balancing Authority Reliability Coordinator Transmission Operator
TOP-001-3**	R10, R11	04/01/2017	Balancing Authority Transmission Operator

*Replaces IRO-005-3.1a per dates noted

**Replaces TOP-006-2 per dates noted

2018 TABLE 5: MONITORING AND SITUATIONAL AWARENESS

STANDARD	REQUIREMENTS	INACTIVE ENFORCEMENT DATE	ENTITIES FOR ATTENTION
IRO-002-5	R5, R6	N/A	Reliability Coordinator
IRO-008-2	R4	N/A	Reliability Coordinator
IRO-018-1(i)	R1, R2, R3	04/01/2018	Reliability Coordinator
PRC-001-01.1(ii) R6		N/A	Balancing Authority Transmission Operator
TOP-001-3	R10, R11, R13	06/30/2018	Balancing Authority Transmission Operator
TOP-001-4*	R10, R11, R13	07/01/2018	Balancing Authority Transmission Operator
TOP-010-1(i)	R1, R2, R3, R4	04/01/2018	Balancing Authority Transmission Operator

*Replaces TOP-001-3 as per dates noted

2017 TABLE 6: PROTECTION SYSTEM FAILURES

STANDARD	REQUIREMENTS	INACTIVE ENFORCEMENT DATE	ENTITIES FOR ATTENTION
PRC-001-1.1(ii)	R3, R4, R5	N/A	Generator Operator Transmission Operator
PRC-004-4(i)	R1, R5	04/01/2017	Distribution Provider Generator Owner Transmission Owner
PRC-004-5(i)*	R1, R5	04/01/2017	Distribution Provider Generator Owner Transmission Owner

*Replaces PRC-004-4(i) per dates noted

2018 TABLE 6: PROTECTION SYSTEM FAILURES

STANDARD	REQUIREMENTS	INACTIVE ENFORCEMENT DATE	ENTITIES FOR ATTENTION
PRC-001-1.1(ii)	R3, R4, R5	N/A	Generator Operator Transmission Operator
PRC-004-5(i)	R1, R5	N/A	Generator Owner Transmission Owner
PRC-024-2	R1, R2	N/A	Generator Owner

2017 TABLE 7: EVENT RESPONSE/RECOVERY

STANDARD	REQUIREMENTS	INACTIVE ENFORCEMENT DATE	ENTITIES FOR ATTENTION
EOP-001-2.1b	R1, R2, R3	03/31/2017	Balancing Authority Transmission Operator
EOP-011-1*	R1, R2	04/01/2017	Balancing Authority Transmission Operator
TOP-007-0	R1, R2, R3, R4	03/31/2017	Reliability Coordinator Transmission Operator
TOP-001-3**	R12, R14	04/01/2017	Reliability Coordinator Transmission Operator
IRO-001-4**	R1	04/01/2017	Reliability Coordinator Transmission Operator

*Replaces EOP-001-2.1b per dates noted

**Replaces TOP-007-0 per dates noted

2018 TABLE 7: EVENT RESPONSE/RECOVERY

STANDARD	REQUIREMENTS	INACTIVE ENFORCEMENT DATE	ENTITIES FOR ATTENTION
CIP-008-5	R2, R3	N/A	Reliability Coordinator Transmission Operator Balancing Authority Generator Operator Transmission Owner Generator Owner
CIP-008-5	R2, R3	N/A	Reliability Coordinator Transmission Operator Balancing Authority Generator Operator Transmission Owner Generator Owner
EOP-011-1	R1, R2	N/A	Balancing Authority Transmission Operator
TOP-001-3	R12, R14	06/30/2018	Reliability Coordinator Transmission Operator
TOP-001-4*	R12, R14	07/01/2018	Reliability Coordinator Transmission Operator
IRO-001-4	R1	N/A	Reliability Coordinator Transmission Operator

*Replaces TOP-001-3 per dates noted

2017 TABLE 8: PLANNING AND SYSTEM ANALYSIS

STANDARD	REQUIREMENTS	INACTIVE ENFORCEMENT DATE	ENTITIES FOR ATTENTION
EOP-002-3.1	R4	03/31/2017	Balancing Authority
TOP-002-4*	R4, R5	04/01/2017	Balancing Authority
TPL-001-4	R1, R2, R3, R4	N/A	Planning Coordinator Transmission Planner
FAC-014-2	R1, R5	N/A	Reliability Coordinator Transmission Operator

*Replaces EOP-002-3.1 per dates noted

2018 TABLE 8: PLANNING AND SYSTEM ANALYSIS

STANDARD	REQUIREMENTS	INACTIVE ENFORCEMENT DATE	ENTITIES FOR ATTENTION
BAL-003-1.1	R1	N/A	Balancing Authority
TOP-002-4	R2, R4, R5	N/A	Balancing Authority
TPL-001-4	R1, R2, R3, R4	N/A	Planning Coordinator Transmission Planner
FAC-014-2	R1, R5	N/A	Reliability Coordinator Transmission Operator
MOD-032-1	R2	N/A	Balancing Authority Generator Owner Resource Planner Transmission Owner Transmission Service Provider
MOD-025-2	R1, R2, R3	N/A	Generator Owner Transmission Owner: That owns synchronous condensers
MOD-026-1	R2	07/01/2018	Generator Owner
MOD-027-1	R2	07/01/2018	Generator Owner
VAR-002-4	R2	N/A	Generator Operator Generator Owner
VAR-001-4.1	R1, R2, R5	N/A	Generator Operator

2017 TABLE 9: HUMAN PERFORMANCE

STANDARD	REQUIREMENTS	INACTIVE ENFORCEMENT DATE	ENTITIES FOR ATTENTION
COM-002-4	R5	N/A	Reliability Coordinator Transmission Operator Balancing Authority
PER-005-2	R3, R4	N/A	Reliability Coordinator Transmission Operator Balancing Authority

*Replaces EOP-002-3.1 per dates noted

2018 TABLE 9: HUMAN PERFORMANCE

STANDARD	REQUIREMENTS	INACTIVE ENFORCEMENT DATE	ENTITIES FOR ATTENTION
COM-002-4	R4, R5	N/A	Reliability Coordinator Transmission Operator Balancing Authority
PER-005-2	R3, R4, R6	N/A	Reliability Coordinator Transmission Operator Balancing Authority Generator Operator
CIP-004-6	R2	N/A	Reliability Coordinator Transmission Operator Balancing Authority Generator Operator Transmission Owner Generation Owner