

## Appendix B – ERO Enterprise Risk Factors

Below is the ERO Enterprise list of common Risk Factors and assessment criteria CEAs use to complete the IRA for a registered entity.

Risk Factors	Criteria for Assessment				
	Risk Factor	N/A	Low Risk	Medium Risk	High Risk
<b>CIP - Impact Rating Criteria</b>	Entity has no BES Cyber Systems (BCS)	Entity has one or more low impact BCS(s)	Entity has one or more medium impact BCS(s)	Entity has one or more high impact BCS(s)	
<b>ICCP Connectivity</b>	Entity has no BES Cyber Systems (BCS)	Entity has low impact BCS(s) without ICCP connections or external routable connectivity	Entity has low impact BCS(s) with at least one ICCP connection - or - Entity has low impact BCS(s) with external routable connectivity (LERC) - or - Entity has medium impact BCSs	Entity has medium impact BCS(s) with at least one ICCP connection - or - Entity has high impact BCS(s)	
<b>Load</b>	Entity does not have any system load	Entity's system load is less than 300 MW	Entity's system load is between 300 - 1,000 MW	Entity's system load is greater than 1,000 MW	
<b>Transmission Portfolio</b>	Entity does not own, operate, coordinate, plan, design, or monitor the status of transmission facilities	Entity has transmission facilities less than 200kV	Entity has transmission facilities between 200 -300 kV - or - Entity has over 1,000 miles of transmission lines 100 kV or greater	Entity has transmission facilities greater than 300 kV - or - Entity has over 4,000 miles of transmission lines 200 kV or greater	
<b>Critical Transmission</b>	Entity does not own, operate, coordinate, plan, design, or monitor the status of transmission facilities	Entity's system is not critical to adjacent entities as it is not being used as a flow through system for power flow	Entity's system is critical to adjacent entities as it is being used as a flow through system for power flow	Entity's system includes elements (owned or operated) of an IROL / Flowgate / Major Transmission Path (WECC) / Generic Transmission Limit (Texas RE) / Cranking Path	

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<b>Voltage Control</b>	Entity does not own or operate any voltage control equipment	-----	Entity owns and/or operates reactive resources to provide voltage control	Entity owns and/or operates reactive resources other than generators to provide voltage control
<b>Largest Generator Facility</b>	Entity does not own any generation facilities	Entity's largest single generation facility is less than 500 MVA	Entity's largest single generation facility is between 500 - 1,000 MVA	Entity's largest single generation facility is greater than 1,000 MVA
<b>Total Generation Capacity</b>	Entity does not own or operate any generation facilities	Entity's total generation nameplate capacity is less than 1,000 MVA	Entity's total generation nameplate capacity is between 1,000 - 5,000 MVA	Entity's total generation nameplate capacity is greater than 5,000 MVA
<b>Variable Generation</b>	Entity does not meet any of the identified criteria	Less than 10% of the entity's BA Area total generation nameplate MVA is comprised of non-dispatchable generation	10% - 25% of the entity's BA Area total generation nameplate MVA is comprised of non-dispatchable generation	Over 25% of the entity's BA Area total generation nameplate MVA is comprised of non-dispatchable generation
<b>Balancing Authority (BA) Coordination</b>	Entity does not meet any of the identified criteria	Entity's BA Area has less than 5,000 MW of generation capacity	Entity's BA Area has between 5,000 - 10,000 MW of generation capacity	Entity's BA Area has greater than 10,000 MW of generation capacity - or - Entity's BA Area has greater than 5,000 MW of generation capacity and its Generation to Peak Load ratio is more than 1.2
<b>Planned Facilities</b>	Entity does not meet any of the identified criteria	Entity is planning on or currently building transmission facilities less than 200 kV in the next three years - or - Entity is planning on or currently building generation facilities that are less than 500 MVA in the next three years	Entity is planning on or currently building transmission facilities between 200 - 300 kV in the next three years - or -	Entity is planning on or currently building transmission facilities greater than 300 kV in the next three years - or - Entity is planning on or currently building generation facilities greater than 1,000 MVA in the next three years

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			Entity is planning on or currently building generation facilities that are between 500 and 1,000 MVA in the next three years	
<b>RAS/SPS</b>	Entity does not own, operate, coordinate, plan, design, or monitor the status of a RAS/SPS	-----	Entity owns or designed a RAS/SPS that is not needed to meet TPL requirements - or - Entity owns or operates equipment that is part of a RAS/SPS that is not needed to meet TPL requirements	Entity owns or designed a RAS/SPS that is needed to meet TPL requirements - or - Entity owns or operates equipment that is part of a RAS/SPS that is needed to meet TPL requirements
<b>Workforce Capability</b>	Entity does not meet any of the identified criteria	Less than 25% of the entity's System Operators have less than 5 years of System Operator experience	Between 25 - 50% of the entity's System Operators have less than 5 years of System Operator experience	Greater than 50% of the entity's System Operators have less than 5 years of System Operator experience
<b>Monitoring and Situational Awareness Tools</b>	Entity does not meet any of the identified criteria	Entity does not have monitoring and situational awareness tools and operates 10 or more lines over 100 kV	Entity does not have monitoring and situational awareness tools and operates 10 or more lines over 200 kV	Entity does not have monitoring and situational awareness tools and operates 20 or more lines over 200 kV
<b>System Restoration</b>	Entity has no responsibilities during system restoration	Entity has regional or company system restoration responsibilities limited to load restoration	Entity has Blackstart Resource(s) - or - Entity provides switching or other logistics based on the direction from a different entity responsible for the restoration plan	Entity is an RC - or - Entity is responsible for independent actions coordinated with an RC

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<b>UFLS Equipment</b>	Entity does not own or operate UFLS equipment	Entity is responsible for “X%” <sup>8</sup> of the entire regionally identified UFLS program	Entity is responsible for “X%” of the entire regionally identified UFLS program	Entity is responsible for “X%” of the entire regionally identified UFLS program
<b>UFLS Development and Coordination</b>	Entity is not responsible for developing or coordinating a UFLS program	Entity is responsible for developing and/or coordinating a UFLS program for “X” MWs of load	Entity is responsible for developing and/or coordinating a UFLS program for “X” MWs of load	Entity is responsible for developing and/or coordinating a UFLS program for “X” MWs of load
<b>UVLS</b>	Entity does not have any UVLS responsibilities	-----	Entity is responsible for 1 - “X” MWs of load shed by a UVLS program	Entity is responsible for greater than “X” MWs of load shed by a UVLS program

<sup>8</sup> Risk Factor criteria that contain an “X” indicates the existence of regional criteria based on technical justifications.