Spinning Reserve
Technical Characteristics Form

The following form is completed and provided to the AESO by the pool participant applying for:

☐ Spinning Reserve - Generation ☐ Spinning Reserve – Battery Storage

☐ Spinning Reserve - Load

Technical Characteristics

– Please complete one (1) form for each resource under the pool asset that is applying for qualification to provide spinning reserve

Technical Characteristic		Comment
Pool Asset ID (Maximum 4 character code assigned by the AESO, ex: ABC1)		
Resource/ Unit Identification (Ex: ABC1 unit 1)		
Maximum Real Power Reserve Capacity* For generating units - The maximum value each generating unit can be moved to and sustained for 60 minutes during a spinning reserve directive. For loads - Upon spinning reserve directive, the minimum value load can be reduced to and sustained for 60 minutes. For battery Storage- Upon spinning reserve directive, the minimum value of Charging load can be reduced AND maximum amount of discharging can be sustained for 60 minutes.	_____ MW	
Minimum Real Power Reserve Capacity* For generating units - The minimum value for which each generating unit can be in position to provide the spinning reserve. For loads – Upon spinning reserve directive, the maximum value load can be reduced to and sustained for 60 minutes. For Battery- Storage- Upon spinning reserve directive, the minimum value of Charging load can be reduced OR maximum amount of discharging can be sustained for 60 minutes.	_____ MW	

2500, 330-5th Avenue SW, Calgary, Alberta T2P 0L4 Phone: 403-539-2450 Fax: 403-539-2949
www.aeso.ca www.poweringalberta.com

Spinning Reserve
Technical Characteristics Form

Technical Characteristic		Comment
Maximum Spinning Reserve Capability The maximum real power volume of spinning reserve that could be provided from each generating unit or load.	_____ MW	
Is Governor responsive to both over- and under-frequencies?*	☐ Yes ☐ No	If no, please explain: _____ _____
Deadband of Governor* (Total deadband should be equal to or less than 0.036 Hertz)	_____ Hz	
Droop setting* Should be equal to or greater than three percent (3%) but less than or equal to five percent (5%)	_____ %	
Does Governor have intentional time delays added to the control system?*	☐ Yes ☐ No	If Yes, please explain: _____ _____
Governor sample rate* (Should be at least 20 samples per second)	_____ samples/second	
Governor resolution* (Should be at least 0.004 Hertz)	_____ Hz	
Does the resource have load limiters installed that override or impact governor system operation?* (Ex: ramp rate controls or intentional time delays) Governor System – are there any load limiters or other control systems (such as ramp rate controls or intentional time delays) installed that override or interfere with governor system operation?	☐ Yes ☐ No	If Yes, please explain: _____ _____

2500, 330-5th Avenue SW, Calgary, Alberta T2P 0L4 Phone: 403-539-2450 Fax: 403-539-2949
www.aeso.ca www.poweringalberta.com

Technical Characteristic		Comment
Remedial Action Scheme (RAS) Provide short description of Remedial actions schemes affecting the resource proposed as a spinning reserve resource		

* Please submit Alberta P.Eng. Stamped supporting documents

2500, 330-5th Avenue SW, Calgary, Alberta T2P 0L4 Phone: 403-539-2450 Fax: 403-539-2949
www.aeso.ca www.poweringalberta.com