

System Control Schedule of Audit and Inspection

2023/24

Issue Date: 01/07/2023

Background

This Schedule of Audit and Inspection is issued pursuant to System Control Technical Code (SCTC) Clause 6.22.1 (e), covers the 2023/24 Financial Year, with a proposed Schedule covering the forward four year period. This Schedule was established with reference to the requirements laid out in Clause 6.22.1 (c). This Schedule of Audit and Inspection is available on Power and Water's website.

Benefits

Audits will provide ongoing benefits to all system participants and the audits will:

- Identify if documented processes and procedures are being adhered to, indicate if the sequence of processes are correct and effective, and aid system participants to gauge the effectiveness of the procedure in place,
- Assist with continuous improvement, improve awareness and understanding of the process requirements,
- Enable government policy by ensuring technical requirements and specifications are maintained, and
- Assist to minimise risk.

2023/24 Schedule

System Control will focus on four key areas in FY2023/2024:

Station Black and System Restart Procedures

Station Black Start Procedures form a critical part of the power system restart and restoration processes, ensuring that these procedures are modern, and effective is critical in ensuring a smooth restoration following major system disturbances. Equally important is ensure that staff involved in actioning these procedures are well informed, and clear on their requirements as part of the procedure.

These audits seek to ensure Black Start System Procedures are being adhered to and to confirm generator's compliance with SCTC Clause 5.7.2. The stations identified for technical audits in this period are Weddell Power Station (WPS) and Owen Springs Power Station (OSPS). Where appropriate to do so in reference to operational power system requirements at the time of the audit, an actual black station test will be undertaken as part of the audit.

System Restart Procedures form the second critical part of the power system restart and restoration processes, ensuring that these procedures are modern, and effective is critical in ensuring a smooth restoration following major system disturbances. Equally important is ensure that staff involved in actioning these procedures are well informed, and clear on their requirements as part of the procedure.

This audit seeks to ensure System Control has prepared a procedure that is compliant with the requirements of SCTC Clause 5.7.3, and in particular the Alice Springs System Restart Procedure will reviewed in detail during this audit period.

Model Data and Information Governance

Power System Modelling is a key aspect of power system design, future planning, and operational planning. It is a widely used asset that underpins a number of key decisions and key government policy. A robust governance framework is required to assure the integrity of the model when being changed.

This audit will review the governance structure on the network model that maintains the model to the same standard dictated in the Power Services Document “The Generator and Load Model Guidelines and Change Management Requirements”. This audit seeks to ensure Power Services is complying with SCTC Clause 1.7.4 (f). . This will seek to ensure that both the network data and asset data in the models are accurate and up to date, and that the processes governing the change and updating of information are effective.

Proposed Schedule

The proposed schedule will focus on continuing work regarding the audit sections above, with an intent to move these to cyclic-based audits to ensure that best practice remains current.

Auditing of Protection and Plant Outage Procedures is proposed to be undertaken from FY2024/25 onwards.

Schedule of Audit and Inspection

Area of Technical Audit and Inspection	Fixed schedule		Proposed schedule		
	FY2023/2024	FY2024/2025	FY2025/2026	FY2026/2027	FY2027/2028
Station Black Procedures	<ul style="list-style-type: none"> • Weddell Power Station • Owen Springs Power Station 	<ul style="list-style-type: none"> • Tennant Creek Power Station • Channel Island Power Station 	<ul style="list-style-type: none"> • Katherine Power Station • Ron Goodin Power Station 	<ul style="list-style-type: none"> • Weddell Power Station • Owen Springs Power System 	<ul style="list-style-type: none"> • Tennant Creek Power Station • Channel Island Power Station
System Restart Procedures	<ul style="list-style-type: none"> • Alice Springs Power System 	<ul style="list-style-type: none"> • Darwin-Katherine Power System 	<ul style="list-style-type: none"> • Tennant Creek Power System 	<ul style="list-style-type: none"> • Alice Springs Power System 	<ul style="list-style-type: none"> • Darwin-Katherine Power System
Model Data and Information Governance	<ul style="list-style-type: none"> • Network Assets 	<ul style="list-style-type: none"> • TGEN Assets 	<ul style="list-style-type: none"> • All Other Proponents 	<ul style="list-style-type: none"> • Network Assets 	<ul style="list-style-type: none"> • TGEN Assets
Change Management Procedures	<ul style="list-style-type: none"> • TGEN 	<ul style="list-style-type: none"> • Network Operator 	<ul style="list-style-type: none"> • ENI • EDL 	<ul style="list-style-type: none"> • TGEN 	<ul style="list-style-type: none"> • Network Operator
Reporting Procedures	<ul style="list-style-type: none"> • Power System Controller 	<ul style="list-style-type: none"> • All Proponents 	-	<ul style="list-style-type: none"> • Power System Controller 	<ul style="list-style-type: none"> • All Proponents
Plant Outage Procedures	-	<ul style="list-style-type: none"> • Power System Controller 	<ul style="list-style-type: none"> • All Proponents 	-	<ul style="list-style-type: none"> • Power System Controller
Operating Protocols	<ul style="list-style-type: none"> • TGEN 	<ul style="list-style-type: none"> • ENI • EDL 	<ul style="list-style-type: none"> • Network Operator 	-	<ul style="list-style-type: none"> • TGEN

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