

System Control Schedule of Audit and Inspection

2024/2025

Issue Date: 28/06/2024

Background

This Schedule of Audit and Inspection is issued pursuant to System Control Technical Code (SCTC) Clause 6.22.1 (e), covers the 2024/25 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.

2024/25 Schedule

System Control will focus on four key areas in FY2024/2025:

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 station identified for technical audits in this period is 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.

Additionally, a second audit will be completed to ensure System Control has prepared a procedure that is compliant with the requirements of SCTC Clause 5.7.3, and in particular the Darwin Katherine System Restart Procedure will be 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 series of audits will review the governance structure on Generator Models. This audit aims to conclude Territory Generations Katherine Generator models meet the requirements of the NTC and SCTC, that asset data in the models are accurate and up to date, and that the processes governing the change and updating of information are effective.

Reporting Procedure

On May 14th 2021 Power and Water Corporation, in its capacity as the Power System Controller, set to make amendments to the System Control Technical Code (SCTC) that related to Power System Incident Reporting, to align this section with good industry practice. The SCTC changes were published for consultation on the 29th of September 2021 and were approved by the Utilities Commission on the 17th of January 2024 pending the publication of the Power System Incident Reporting Guideline. Version 7 of the System Control Technical code came into effect on the 14th of February 2024. The audit will review System Participants adherence to the current System Control Technical Code and offer suggestion on how to improve processes in order to meet their obligation.

Plant Outage Procedure

The Power System Controller is responsible for coordinating and sanctioning all plant outage requests (SCTC 2.2 c). The System Control's Plant Outage Procedure was produced to provide clarity to System Participants for plant outages. The procedure applies to generation, transmission, or distribution plant connected to the Darwin Katherine, Alice Springs, and Tennant Creek regulated power systems for which the Power System Controller determines that coordinated outage scheduling is required to manage the risk to system security or system reliability.

This audit will aim to assess System Controls compliance with the System Control Plant Outage Procedure. This will ensure System Control is operating to best industry practice and meeting code obligations.

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		
	FY2024/2025	FY2025/2026	FY2026/2027	FY2027/2028	FY2028/2029
Station Black Procedures	<ul style="list-style-type: none"> Owen Springs Power Station Channel Island Power Station 	<ul style="list-style-type: none"> Tennant Creek Power Station Katherine Power Station 	<ul style="list-style-type: none"> 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"> Darwin-Katherine Power System 	<ul style="list-style-type: none"> Alice Springs Power System 	<ul style="list-style-type: none"> Tennant Creek Power System 	<ul style="list-style-type: none"> Darwin-Katherine Power System 	<ul style="list-style-type: none"> Alice Springs Power System
Model Data and Information Governance	<ul style="list-style-type: none"> TGEN Assets 	<ul style="list-style-type: none"> Network Assets 	<ul style="list-style-type: none"> All Other Proponents 	<ul style="list-style-type: none"> TGEN Assets 	<ul style="list-style-type: none"> Network Assets
Change Management Procedures	<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 	<ul style="list-style-type: none"> All other Proponents
Reporting Procedures	<ul style="list-style-type: none"> EDL 	<ul style="list-style-type: none"> Territory Generation 	<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
Plant Outage Procedures	<ul style="list-style-type: none"> Power System Controller 	<ul style="list-style-type: none"> All Participants 	<ul style="list-style-type: none"> - 	<ul style="list-style-type: none"> Power System Controller 	<ul style="list-style-type: none"> All Participants
Operating Protocols	<ul style="list-style-type: none"> - 	<ul style="list-style-type: none"> ENI* EDL* 	<ul style="list-style-type: none"> Network Operator 	<ul style="list-style-type: none"> TGEN 	<ul style="list-style-type: none"> EDL

Ongoing Compliance Monitoring Audit	<ul style="list-style-type: none"> - 	<ul style="list-style-type: none"> - 	<ul style="list-style-type: none"> • Weddell Power Station • Defence Solar Farms* 	<ul style="list-style-type: none"> • Channel Island Power Station • ENI Solar Farms* 	<ul style="list-style-type: none"> • Owen Springs Power Station • Pine Creek Power Station*
Miscellaneous Technical Audits	<ul style="list-style-type: none"> • DDR Settings and Configuration • Katherine Power Station Models* 	<ul style="list-style-type: none"> - 	<ul style="list-style-type: none"> - 	<ul style="list-style-type: none"> - 	<ul style="list-style-type: none"> -

Audits marked by * are conditional on certain triggers or decisions being made.

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