

# SCHEDULE "L"



Town of Cardston

## **Standby / Backup Generation Interconnection Requirements**

Electrical Distribution System Operational Documents

Version 1.023



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## **Attachments:**

### **Schedule “L” — Standby / Backup Generation Interconnection Requirements**





# Standby / Backup Generation Interconnection Requirements

**Definition:** A non-export power system that automatically operates within seconds of sensing a loss of Town of Cardston’s utility power. The system isolates from Town of Cardston Electric Utility and the facility load is transferred to the backup power system. Upon restoration of Town of Cardston system, the load is transferred back to the utility, while isolating the standby / backup generation source. During the transfer, the backup generation source shall fall within Town of Cardston synchronization limits to parallel. **Any parallel with Town of Cardston’s system shall only be maintained for six cycles (100 ms) or less during a source transfer.**

*The following shall be completed, verified and all reporting sent to Town of Cardston, for approval, prior to energization.*

GENERATOR OWNER/ INSTALLER INFORMATION	
Company Name:	
Contact Name:	
Owner Name:	
Address:	
Telephone Number:	
Email:	
INTERCONNECTION CHECKLIST	
<input type="checkbox"/>	Standby/Backup generation system will only parallel Town of Cardston Utility for six cycles (100ms) or less
<input type="checkbox"/>	Under-voltage protection, to ensure the standby/backup generation system is not capable of energizing a de-energized distribution system.
<input type="checkbox"/>	500 ms delay timer as a secondary parallel protection to ensure standby/backup generation system and Town of Cardston will not together maintain a closed position for more than 500ms.
<input type="checkbox"/>	Manual or automatic synchronization check
<input type="checkbox"/>	Test report to verify above protection
<input type="checkbox"/>	Include SLD which provides clear representation of protection, standby/backup generation facility and the interconnection tie point. (See CSA C22.3 No. 9 Annex A for reference)

*To be verified and signed by a qualified personnel prior to energization:*

**Name:** \_\_\_\_\_

**Signature:** \_\_\_\_\_

**Company:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Qualifications:** \_\_\_\_\_

For questions regarding any items on this checklist, please e-mail [electrical@cardston.ca](mailto:electrical@cardston.ca).

**Please return the completed checklist along with the required documents.**