

Infrastructure self-audit checklist

Critical Spares

- **Do you have any duty/standby paired equipment, and if so, do both pieces of equipment work? Do auto change-overs work appropriately?**

Regularly test your equipment so you know it will operate as designed, when needed. If you have a local isolator switch (power supply) this could be as simple as switching off the power to the duty pump while it is running, and ensuring that the standby pump starts and supply is maintained. If you do not have local isolator switch, use a licenced electrician or suitably experienced engineer to assist in the testing and help resolve any issues.

- **Have you checked or serviced your equipment within the last 12 months? Is it due for a service prior to the busy season?**

Assets and equipment have a funny habit of failing right when you need them most. If your equipment has not been tested in the last 12 months, ensure that all assets are in an operable and serviceable state, especially before any peak demand period.

- **Do you have basic spare parts for minor equipment servicing (e.g. seal kits, grease, oil, drive belts, air-filters, etc.)?**

Your Operators will be a valuable source of information on what general items are needed when emergency corrective maintenance is required. Use their experience to build a list of parts that may be required for those emergencies and arm your support staff with the tools and equipment to reduce the down-time if something does fail at the worst possible time.

- **Do you have a critical spares list from your O&M manual?**

Suppliers will generally have a reasonably well-developed list of critical spares, but if not your Operators will be the next best source of information.

- **If so, are all those listed spare parts available?**

This is particularly important for “special” items likely to have long lead times when ordered. If you know you have duty (only) pump that presents a single point of failure for your system then holding a spare on the shelf may be the best way to cover the risk of this pump failing (and suppliers telling you they cannot get a replacement to you for 8-10 weeks!) You may want to consider having a dedicated online standby pump, but the cost of this upgrade may be too high in the short term, and a “cold” standby pump may only result in a short downtime (e.g. changed within 1 hour). This may be more acceptable for the immediate future.

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