**Assessment & Actions forTeam**

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| Project: Power generation for remote borefields |

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| **Professional Performance Elements** | **Assessment** | **Actions** |
| **Relevant Parties and Stakeholders**  *Do you clearly understand the relationship with the people who depend on you, and those you depend on, and their expectations?”* | Mine site  Jacobs  Design Team  State Government  Priority is to deliver uninterrupted power, with a safe installation at minimum cost | Communication at partner meetings with Jacobs and through technical queries.  Follow government legislation |
| **The Engineering Task**  *Have you discussed and agreed with the person you are working for the objectives and extent of the task you are doing?* | Continuous Power (90kW/day)  900ML/annum water pumped  Lifetime of 10 years  Provide cooling/shelter for power system  Allow for weather conditions  Backup system  Start-up method  Maintenance  Power the control and telemetry system | Require clarification on the communication and telemetry system. |
| **Competence to Act**  *Have you checked that you have the skills, tools and resources required to do the job?* | Skills:  Legal knowledge  Electrical Design  Cost Analysis  Risk Assessment  Project Management  Power systems  Fault analysis  Renewable energy  Efficiency calculations  Available software | From SWOT analysis the team lacks legal knowledge and cost analysis skills  Will need to research, learn, review previous learning and ask questions |
| **Statutory Requirements and Public Interest**  *Have you identified and responded to relevant statutory requirements and public interest?* | AS3000 – Aus/NZ wiring rules (insulation etc)  Risk management – ISO31000 and Jacobs risk management template  Environmental protection act  Aboriginal land act | Follow the relevant standards and government land acts |
| **Risk Management**  *Are you effectively identifying and managing risks which may prevent the proper performance of the job?* | Risks that may affect the project:  New laws could disrupt  Risks involved with the project (e.g. underground shelter and confined spaces, electrical faults, fire/electrocution  Cost overflow  Change in scope  Clients change their mind about deliverables  Native titles/reclaiming of land  High temperatures, poor climate and weather conditions | Follow the risk management standard and documents provided by Jacobs  Put controls in place for controllable risks  Mitigate risks outside of our control |
| **Engineering Innovation**  *Are you considering innovative ways of doing your job better?* | Renewable energy sources and hybrid power supply  Different construction methods (underground storage)  The way tasks are allocated amongst the group | Research how similar projects have been carried out and consider how they can be improved |
| **Engineering Task Management**  *Are you applying the appropriate task management processes?* | Tasks will be split based on the type of solution  Solar, wind, diesel, storage, grid etc.  Deliverables: SLD, flow chart, PID, power system design, generic costs, NPV, assumptions, 3 options | Use project management theory  Use time effectively (time management skills) |
| **Contractual Framework**  *Are you considering implications of the contract under which the work is being done?* *What are the targeted commercial outcomes?* | No specific contract  Cheapest and fastest solution  10 year lifetime | Compare all the solutions for the cheapest and fastest solution |