



Environment Water & Land Plan Evidence

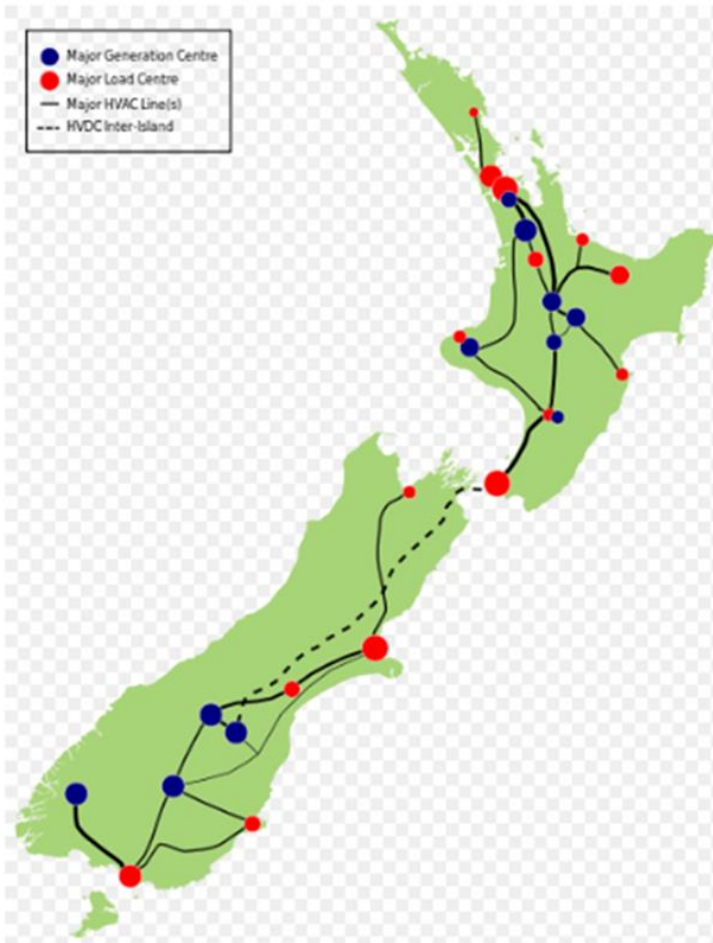
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Key Presentation Points

- MPS - Context
- Current Authorisations
- Primary Focus of Submission

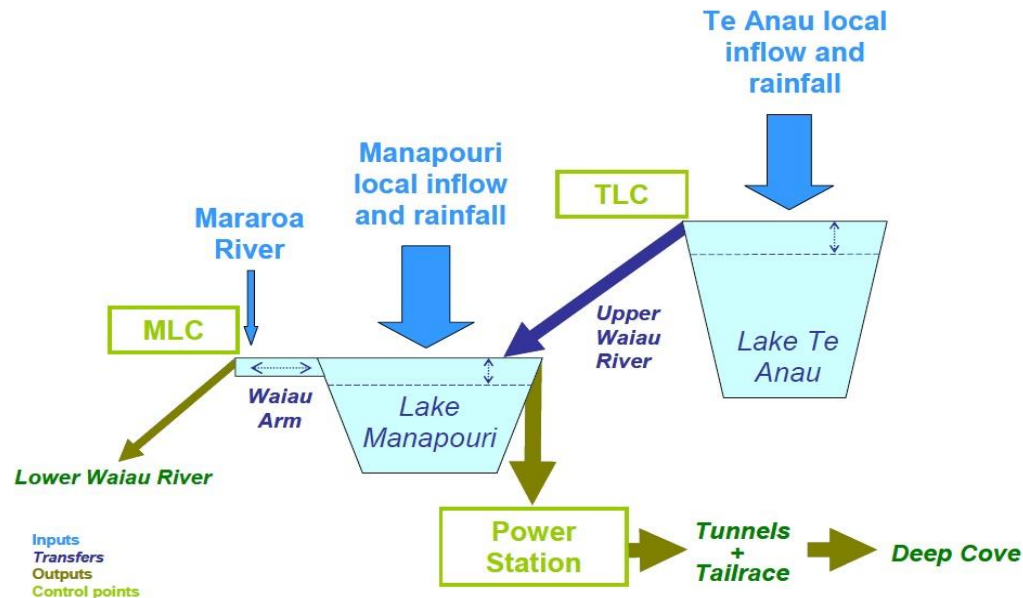
MPS Generation & the National Grid



- MPS is critical piece of nz electricity infrastructure.
- Covers planned outages
- Provides spinning reserve to cover a system failure in another part of the grid
- Provides approximately 12% of national supply

Manapouri Power Scheme (MPS) – Operation

- MPS is largest single hydro power station in NZ - 850 MW output
- MPS limited storage scheme < 2.0 in main range for each lake (compared to Lake Pukaki with 14.5 metres)
- MPS relies on large inflows for generation rather than storage



Guidelines – Overview

Figure 1.3 Level Guidelines for Lake Te Anau

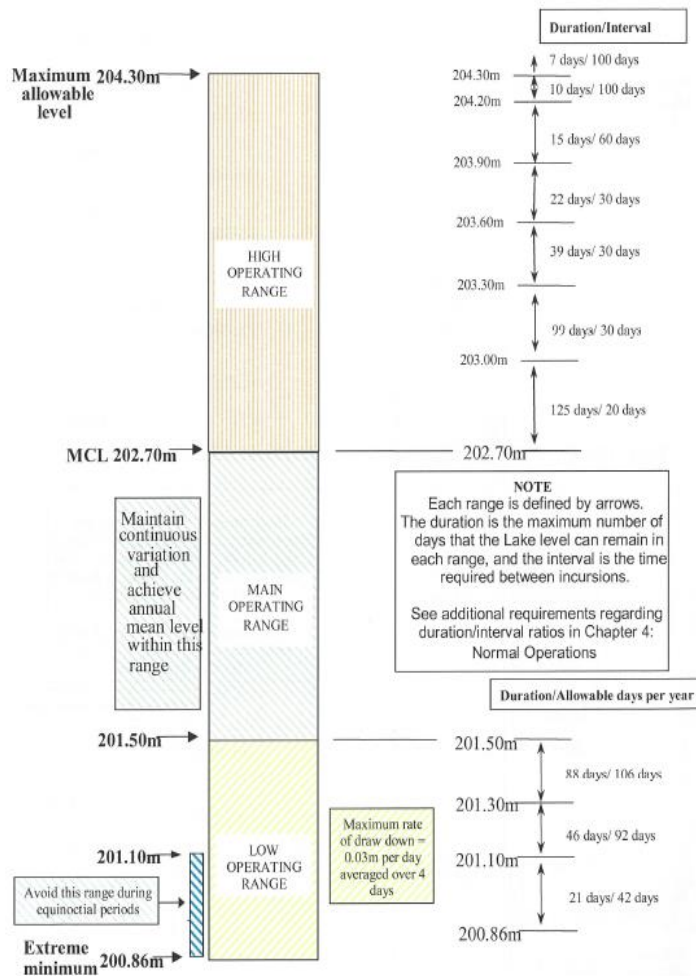
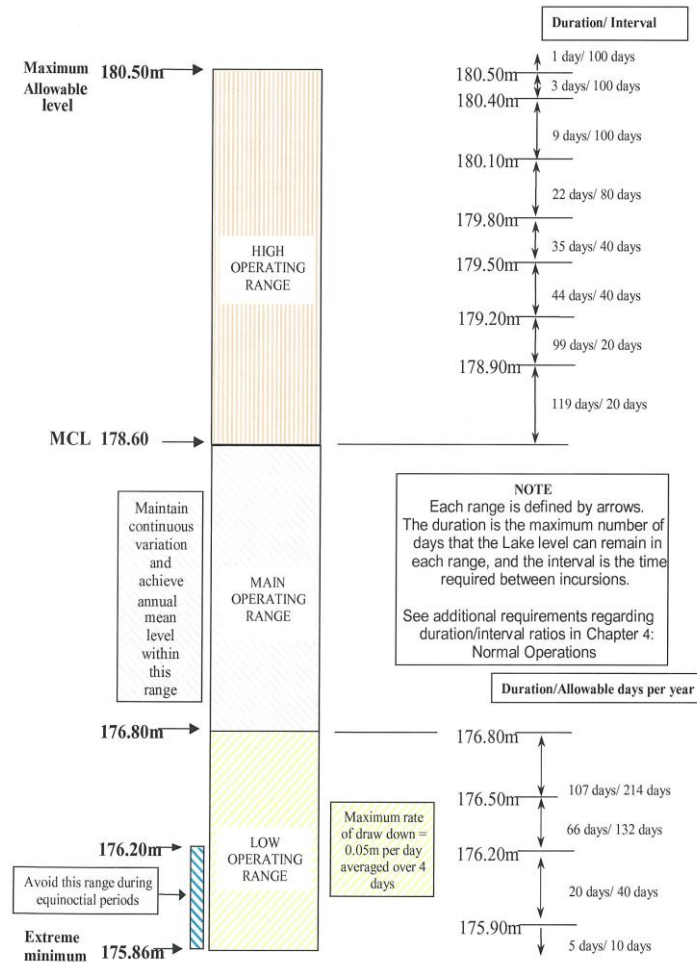


Figure 1.4 Level Guidelines for Lake Manapouri



MPS – Dual Authorisation To Operate



MTADA 1963 - Mandate

- Empowering legislation for development of MPS
- Legislation tested in 2015 to confirm its status in context of RMA
- ES has agreed specific sections of RMA do not apply to the operation of the MPS. Activity must be “necessary and requisite” to the operation of the MPS.
- Legislation provides for lake operating guidelines.
- Guidelines management overseen by Lake Manapouri Te Anau Lakes Guardians

RMA1991 - Mandate

- Consented in 1996 (9 primary and 15 ancillary consents)
- Consents expire 2031
- Consents and associated mitigation developed via a collaborative process with key stakeholders (Waiau Working Party)
- RMA consents applied for limited to sections 12 CMA,14 restrictions to water & section 15 discharges

Meridian Interest in the Proposed Water & Land Plan



- activity status MPS consenting
- enabling activity status for operational needs of MPS not currently provided for as a permitted activity
- application of appendix E standards to MPS operations
- The impact of the NPS Freshwater 2014 – inability to comply with periphyton standard
- potential third party impact on water quality

Q&A
