

# NOTICE TO TENDERERS



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**Number Two**

**Date:** 27 May 2016

**Reference:** 80507610

**Client** Fiji Electricity Authority

MWH New Zealand Ltd

**Project** Wailoa Power Station Turbine Inlet Valve Rehabilitation Works  
Tender No. MR40/2016

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Following the site visit on 11 May 2016 we are writing to confirm the scope of work for this contract.

- **Clause 7.4 (b)**  
Delete.  
The seals will remain water actuated.
- **Clause 8.5.**  
Delete the words *“The counterweight is to be supported from the floor and is not to be attached to the valve body”*.  
There is no requirement for the counterweight to be supported from the floor. The counterweight may be fitted on either side of the valve. The need for safety barriers needs to be considered to protect operating personnel.
- **Clarification**  
Section 8.9.1 states *“In addition a system should be provided that automatically detects and stops any such penstock pressure oscillations caused by either maintenance or service seal oscillations”*. An auto-oscillation detection has been provided as part of the new Unit 4 Inlet Valve. An output from this system shall be sent to each turbine inlet valve. This will connect into the control system and close the maintenance seal provided the valve is confirmed to be closed.
- **Section 8.9.1.**  
Delete the last paragraph.  
Limit switches cannot be fitted to the moving component of the seals.
- **Add a new Clause 8.22 Existing Bolts**  
All existing bolts shall be subjected to NDT testing to confirm that they are free of cracks or manufacturing defects. The results shall be included in the condition report specified in Clause 7.4. If the bolts are in satisfactory condition, they may be reused; otherwise they must be replaced with a similar bolt and nut. If the bolts and nuts must be replaced the cost will be treated as a variation.

A number of other matters require clarification as a result of the inspection of the existing valve:

<b>Aspect</b>	<b>Action</b>
The trunnion bearing surface is grooved and the nickel surface damaged.	The repair required needs to be considered as part of the design of the new self lubricating bearing design. Similarly the trunnion housing is damaged and the its repair needs to be considered as part of the new bearing design
Some surfaces in contact with the gaskets are corroded and for this reason the tightening is compromised. The functioning of the movable seal ring is compromised owing to this problem. As a result it is not possible to pressurise the seal chamber	The seal chamber must be refurbished to ensure that the sealing works correctly. The surfaces should be NDT'd, cleaned welded and machined as required
Maintenance Seal Moving Ring	Replace
Maintenance Seal Stationary Ring	Retain
Maintenance Seal Retaining Ring	Replace
Maintenance Seal Guide Bush	NDT, refurbish and if necessary replace
Service Seal Moving Ring	Replace
Service Seal Stationary Ring	Replace
Service Seal Retaining Ring	Replace
Service Seal Guide Bush	NDT, refurbish and if necessary replace

If you have any questions please follow the procedures set out in the Conditions of Tendering in Section 2 of the Contract Documents.



Robin Spittle  
**Project Manager**  
**MWH New Zealand Limited**