

## HAZOP Checklist for Pump Station

WATER SERVICES INDUSTRY ACT 2006

### HAZOP CHECKLIST FOR PUMP STATION

Items to be identified in the drawings	Checklist		Comments
	Yes	No	
1. Has safe and suitable access to the wells been provided?			
2. Has a penstock been installed upstream of the wet well to isolate the pump station should there be a flood in relation to the bypass and emergency overflow?			
3. Has a double penstock system been provided for safety reasons?			
4. Has ventilation for all hazardous zones of the pump stations been provided? If not state how this area will be ventilated?			
5. Is a separate ventilation system provided for the wet wells and dry wells? If not state how both wells have been ventilated.			
6. Are the wet wells and dry wells adequately lighted?			
7. Are guard rails and safety chains around all pits, wells, and floor openings provided for safety reasons? State safety provisions in this area.			
8. Are all electrical installations in the pump stations vapour proof and explosion proof.			
9. Are there adequate level controls for start-stop level of pumps in the pump station?			
10. Have corrosion resistant materials been used for the guardrails, lifting devices and other well fittings?			

