Somerset Dam Emergency Procedure

In the event of communications loss with the Flood Operations Centre, the Dam Supervisor at Somerset Dam is to assume responsibility for flood releases from the Dam. Once it has been established that communications have been lost, the Dam Supervisor at Somerset Dam is to:

- Take all practicable measures to restore communications and periodically check the lines of communication for any change;
- Undertake the actions set out below to release flood water from Somerset Dam;
- Log all actions in the Event Log;
- Ensure the dam is at full supply level at the end of the event;
- Remain in the general vicinity of the dam while on duty.

The actions to be undertaken to release flood water are:

- If communications with Wivenhoe Dam are lost, the level in Wivenhoe Dam is to be assumed as the level shown on gauge boards located downstream of Somerset Dam.
- The radial gates are to be kept raised to allow uncontrolled discharge.
- The regulators are to be closed if the tail water level exceeds EL 68.60 and are generally kept closed. The only exception to this is if the regulators are used to prevent overtopping of the dam.
- Sluice gates are operated as either fully opened or fully closed. The order of operation for opening the sluice gates is LMKNJOIP. Sluices are to be closed in reverse order of opening. Any inoperable sluices are to be dropped from the opening or closing sequences. The sluice gates are to be operated in accordance with the following procedures:
  - Case 1 - the level in Somerset Dam is below EL 100.45; or
  - Case 2 - the level in Somerset Dam is above EL 100.45.

These procedures are described below.
**Case 1 Procedure (Level in Somerset Dam is below EL 100.45)**

The sluice gates are to be operated in accordance with the following table:

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<th>CONDITIONS AT SOMERSET AND WIVENHOE DAMS</th>
<th>ACTIONS</th>
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<td>Level in Somerset Dam is below EL 100.45, Level in Wivenhoe Dam is below EL 70.0 and falling.</td>
<td>Sluice gates are to be opened at intervals of not less than 120 minutes, provided the number of open sluice gates does not exceed that shown in the &quot;SOMERSET DAM - MAXIMUM SLUICE GATE OPENING&quot; table. Once a sluice gate is opened, no further sluice gate operations are to be undertaken for 120 minutes.</td>
</tr>
<tr>
<td>Level in Somerset Dam is below EL 100.45, Level in Wivenhoe Dam is below EL 70.0 and rising.</td>
<td>Sluice gates are to be closed at intervals of not less than 180 minutes. Once a sluice gate is closed, no further sluice gate operations are to be undertaken for 180 minutes.</td>
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<tr>
<td>Level in Somerset Dam is below EL 100.45, Level in Wivenhoe Dam is above EL 70.0.</td>
<td>Sluice gates are to be closed at intervals of not less than 60 minutes. Once a sluice gate is closed, no further sluice gate operations are to be undertaken for 60 minutes.</td>
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**SOMERSET DAM MAXIMUM SLUICE GATE OPENING**

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<tr>
<th>SOMERSET DAM LEVEL</th>
<th>MAXIMUM NUMBER OF SLUICE GATES ALLOWED TO BE OPEN</th>
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Case 2 Procedure (Level in Somerset Dam is above EL 100.45)

The sluices gates are to be operated in accordance with the following graph:

Sluices are progressively closed at one hour intervals if operating above the Operating Target Line and progressively opened at one hour intervals if operating below the Operating Target Line. The aim is always to follow the Operating Target Line as closely as possible.

10.4 Equipment Failure

In the event of equipment failure the action to be taken is indicated in Appendix E for Wivenhoe Dam and Appendix F for Somerset Dam.
APPENDIX A
AGENCIES HOLDING CONTROLLED COPIES OF THIS MANUAL
# APPENDIX B

## KEY REFERENCE GAUGES

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WIVENHOE DAM TECHNICAL DATA
APPENDIX D
SOMERSET DAM TECHNICAL DATA
APPENDIX E
WIVENHOE DAM GATE OPERATION CONSIDERATIONS

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APPENDIX F

SOMERSET DAM AUXILIARY EQUIPMENT
Manual of Operational Procedures for Flood Mitigation at Wivenhoe Dam and Somerset Dam

APPENDIX G
HYDROLOGIC INVESTIGATIONS

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APPENDIX H

WIVENHOE DAM

PLANS, MAPS AND PHOTOGRAPHS

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PLANS, MAPS AND PHOTOGRAPHS
APPENDIX J
WIVENHOE DAM – FUSE PLUG BREACH SCENARIOS
Legend

- BoM and council flood alert stations [real time data via radio telemetry]
- DERM gauging stations
- Population centres
- River / creek
- Drainage basins

Note: For locations of Bureau of Meteorology (BoM) and council flood alert stations, the map may not include sites not yet commissioned or whose data has not been validated.

Map title: DERM-18

Department of Environment and Resource Management (DERM) Streamflow Gauging Stations and Bureau of Meteorology (BoM) Flood Alert Stations

Publication date: 27 February 2011

Scale: 1:500,000

Queensland Government

DRAFT
For discussion purposes only
Flood station data not validated

SOQ.001.001.4179
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DERM Links – Publicly available

Corporate Brochure

Flood Mitigation Manual for a Dam

Spatial Information

OCC – Report

Flood Risk Management


Resource Operations Licences and Interim Resource Operations Licences

Other Entity Links – Publicly available

Murray Darling Basin

National Flood Risk Advisory Group (NFRAG)

National Water Initiative
National Water Commission

Water for the Future

Australia’s Biodiversity Conservation

Bureau of Meteorology
www.bom.gov.au

Emergency Management Queensland

State Counter Disaster Plan

State Disaster Management Group
www.disaster.qld.gov.au

Webbe-Weller Review
SEQWB (South East Queensland Water Board) 1993 Study (Commercial in Confidence) Volume Index

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