

# EVENT REPORT



<b>Site</b>	Sellafield
<b>Description of Event</b>	Loss of steam supply to Sellafield site
<b>Date of Incident</b>	18 July 2011
<b>INES Scale</b>	N/A

REPORTING AREAS	DETAILS
<b>Brief Description of Event</b>	<p>The Combined Heat and Power Plant (CHP), which provides steam to Sellafield site, was undergoing maintenance on its Gas Conditioning Plant. This meant only two of the steam supply units were available. A fuel oil leak occurred on one unit, prompting its shutdown for repair. The remaining steam supply unit was increased in power and steam generation capability to make up the shortfall, but then tripped. This led to a total loss of steam supply to the Sellafield site.</p>
<b>Positive outcomes</b>	<ul style="list-style-type: none"><li>• SECC established and all nuclear plants were safely shutdown.</li><li>• No nuclear safety issues identified during the event.</li><li>• Excellent response by the Sellafield Utilities team, who were on site, and off duty, at the time of the event.</li><li>• Good speed of response to fuel oil leak and reinstatement of high and low pressure steam by CHP.</li><li>• Provided validation to the Emergency Response Arrangements regarding Loss of Steam to site.</li></ul>

<b>Negative outcomes</b>	<ul style="list-style-type: none"><li>• Sellafield site did not reduce its steam load promptly enough when CHP were down to one unit.</li><li>• Over optimistic for the return time of the second steam raising unit, contingency arrangements should have commenced earlier.</li></ul>
<b>Learning Points</b>	<ul style="list-style-type: none"><li>• For future steam outages consideration must be given to the impact of the time of day (silent hours) and the number of plants running during the outage.</li><li>• The effects of the steam loss were focused on nuclear plants, however steam loss to non nuclear plants should not be neglected as this impacts on welfare services e.g. showers and medical dept.</li><li>• Resourcing of the Utilities team to be reviewed.</li></ul>