

PRJ Category 1 Shortfall Action Plan

g) Resulting Actions -Owner(s)

1. Place the Bay [redacted] process under DAP control with a view to develop specific interventions covering process control set-up, temperature monitoring whilst in use and sample recovery from each furnace - [redacted] (Bay [redacted] and [redacted] Manager) & [redacted] (TL, [redacted] Metallurgy),
2. Undertake a review of the current OI relating to [redacted] with a view to strengthen the arrangements for the control and supervision of furnace operations inclusive of the findings of Action 1. OI to be amended accordingly - [redacted] (Bay [redacted] Process Manager) & [redacted] (TL, [redacted] Metallurgy)
3. In conjunction with Action 1, derive and implement a management plan for co-ordinating and recording future Bay [redacted] operations until Actions 6 and 78 are implemented. Operating regime to limited to only running one furnace at any one time - [redacted] (Bay [redacted] Process Manager)
4. Identify a DAP for the process and obtain the required appointment for the interventions identified under Action 1 - [redacted] (GL, [redacted] Materials)
5. Confirm the functionality of the over-temperature protection facility and place facility on the Facility's EMIT Plan - [redacted] (Maintenance Delivery Manager)
6. Implement additional guarding to protect the operator from a potential contaminated burn hazard during furnace unload operations. Guarding to achieve a Risk Reduction Target of  $10^{-3}$  failures per demand. - [redacted] (Bay [redacted] and [redacted] Manager)
7. Undertake an ALARP review to determine if any practicable engineered improvements can be made to protect the operator from receipt of a CW burn wound from all faults leading to a potential hot surface. As a minimum, the review needs to explore re-engineering of the over-temperature protection arrangements for each furnace - [redacted] (Bay [redacted] Process Manager) & [redacted] (Bay [redacted] and [redacted] Manager)
8. Provide additional temperature indications to support implementation of required enhanced management arrangements - [redacted] (Bay [redacted] Process Manager) & [redacted] (Bay [redacted] and [redacted] Manager)

Note:

Completion of Actions 1 to 5 is required to downgrade the Category 1 shortfall to Category 2 and permit restart of operations at a proposed restricted rate (TBC). Completion of Actions 6 to 8 is required to enable the operating restriction to be lifted. Note: Halting operations under a management restriction temporarily addresses the Category 1 shortfall.

Action tracking and close out to be managed via [redacted] PRJ Shortfalls Register

h) Signatures

Originator:- [redacted] (SCM)	Signature
Action Plan Approved by:- [redacted] (SCM)	Signature
Action Plan Authorised by: [redacted] (FM)	Signature

Relevant Actionees:-

██████████ (Bay and Bay Manager)	Signature
██████████ (Bay Process Manager)	Signature
██████████ (GL, ██████████ Materials)	Signature
██████████ (TL, ██████████ Metallurgy)	Signature
██████████ (Maintenance Delivery Manager)	Signature

i) Justification for Continued Operation

None at present – justification for re-start subject to close-out of Actions 1 to 5 inclusive and a demonstration that the residual maximum ██████████ risk to the operator is close ██████████

Endorsed by the ██████████ MCC (Signature or Minutes of MCC mtg / date)

Effective date: