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| **Project:** | **2061 Port Kembla Pipeline Project** | **Revision No:** | **B** |
|  | **Revision Date:** | **14 October 2022** |
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| **HAZID Conducted:** | Early Works & Execution Project HAZID | **Date/s Conducted:** | 22/03/2022 – Early works08/09/2022 – Execution |
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| **HAZID Document Reference** | HSE Risk Register (HIRAC Register) | **HAZID Document** **Number** | GAS-599-RG-HSE-004Revision B |
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| **No.** | **Action** | **Responsibility** | **Due Date** |
| 1 | Add in at Existing Controls 'Daily BrAC testing of all personnel.'  | Nacap | 22-Mar-22 |
| 2 | Add in at Hazards & Risks 'including when service proving'  | Nacap | 22-Mar-22 |
| 3 | Add in at Existing Controls '- no unauthorised modification of hand tools; no use of makeshift hand tools'  | Nacap | 22-Mar-22 |
| 4 | Add in at Existing Controls 'Use of gators where risk assessment deems necessary'  | Nacap | 22-Mar-22 |
| 5 | Add in at Existing Controls 'keep noisy activities to short duration where possible. comply with land access agreements; use of Nacap LECH Form 2'  | Nacap | 22-Mar-22 |
| 6 | Add in at Existing Controls 'Implementation of Nacap Safe Plant Interaction (SPIN) Program'  | Nacap | 22-Mar-22 |
| 7 | Add in at Existing Controls 'Use of tilt-tray and low-loaders for machine transport. '  | Nacap | 22-Mar-22 |
| 8 | Remove 'Hearing damage from hammering in stakes' item from Hazards & Risks column | Nacap | 22-Mar-22 |
| 9 | Non-applicable items at 3.2 struck out | Nacap | 22-Mar-22 |
| 10 | Include 'double eye protection' in Existing Controls | Nacap | 22-Mar-22 |
| 11 | Include 'appropriate cleaning mechanism for blockages' in Existing Controls | Nacap | 22-Mar-22 |
| 12 | Include 'Pneumatic, machine compaction.' in Existing Controls | Nacap | 22-Mar-22 |
| 13 | Include 'Suitably competent/VOC'd operators' in Existing Controls | Nacap | 22-Mar-22 |
| 14 | Remove 'Cuts from wire' from Hazards & Risks | Nacap | 22-Mar-22 |
| 15 | PM sign-off of moderate (M) risks with potential long term injury or illness consequence. Responsible for ensuring the relevant higher authority is notified of the high consequence risks i.e., OD and EMT. | Nacap | 05-Apr-22 |
| 16 | OD sign-off of moderate (M) risks with potential Fatality or permanent disability consequence. Responsible for ensuring the relevant higher authority is notified of the high consequence risks i.e., EMT.  | Nacap | 05-Apr-22 |
| 17 | 12.3 – Update to include. Access via Seawall Road HDD1 – Traffic Control Plans in place (Reviewed and Approved) | Nacap | 09-Sep-22 |
| 18 | 12.15 – Update to Include - Applicable Management Plans Approved prior to commencement of works | Nacap | 09-Sep-22 |
| 19 | 7.9 – Add in Safety Essentials #3 Mobile Plant, #9 Foreign Services, #6 Lifting Equipment & VRD (Voltage Reduction Device) must be used | Nacap | 09-Sep-22 |
| 20 | 7.10 – Updated item 4 to LTI and Item 6 to LTI/MTI | Nacap | 09-Sep-22 |
| 21 | 4.4 Add in 2. Licenced drivers and experienced and Use only designated access points and existing pipeline cross-over points | Nacap | 09-Sep-22 |
| 22 | 4.1 – Added in Use of slings permitted, but must be rated and tested and tagged and inspected prior to use | Nacap | 09-Sep-22 |
| 23 | 4.10 Added in 2. Tools to be used to safely remove end caps. Soft mallets to be used for re-installation (not to be installed by banging on with hands) | Nacap | 09-Sep-22 |
| 24 | 10.1 added in Hazard - External Road Users / General Public | Nacap | 09-Sep-22 |

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| **HAZID Action Close Out Sheet - General .01** |
| **Recommendation:** | **Add in at Existing Controls 'Daily BrAC testing of all personnel. Within General Tab (0.19)** |
| **Responsibility** | **Nacap** |
| **Response to Recommendation:** | Daily BrAC now included to state that all personnel will be BrAC tested every day |
| **Completed by:** | **John Curtain**  | **Date:** | **22/03/22** |
| **Review Comments:** | **Confirmed that the amendment to control has been included in HAZID Register** |
| **Review Completed by:** | **Jason Heard** | **Date:** | **22/03/22** |

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| **HAZID Action Close Out Sheet -General 0.9** |
| **Recommendation:** | Add in at Hazards & Risks 'including when service proving' |
| **Responsibility** | **Nacap** |
| **Response to Recommendation:** | * Service Proving now added to hazards / risks in general tab of HAZID Register.
 |
| **Completed by:** | John Curtain  | **Date:** | **22/03/22** |
| **Review Comments:** | **Confirmed that the amendment to hazard and risks in the general tab in HAZID Register** |
| **Review Completed by:** | **Jason Heard** | **Date:** | **22/03/22** |

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| **HAZID Action Close Out Sheet – General 0.11** |
| **Recommendation:** | Add in at Existing Controls '- no unauthorised modification of hand tools; no use of makeshift hand tools' |
| **Responsibility** | **Nacap** |
| **Response to Recommendation:** | Recommended inclusion in the general tab addressing the modification of hand tools and use of makeshift tools has been addressed |
| **Completed by:** | **John Curtain** | **Date:** | **22/03/22** |
| **Review Comments:** | **Confirmed that the amendment to control has been included in HAZID Register** |
| **Review Completed By:**  | **Jason Heard** | **Date:** | **22/03/22** |

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| **HAZID Action Close Out Sheet – General 0.13** |
| **Recommendation:** | Add in at Existing Controls 'keep noisy activities to short duration where possible. comply with land access agreements; use of Nacap LECH Form 2'  |
| **Responsibility** | **Nacap** |
| **Response to Recommendation:** | Existing controls amended to include short duration of noisy activities where possible including use of LECH Form 2. |
| **Completed by:** | **John Curtain** | **Date:** | **22/03/22** |
| **Review Comments:** | **Confirmed that the amendment to control has been included in HAZID Register** |
| **Review Completed by:** | **Jason Heard** | **Date:** | **22/03/22** |

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| **HAZID Action Close Out Sheet General - 0.12** |
| **Recommendation:** | Add in at Existing Controls 'Use of gators where risk assessment deems necessary' |
| **Responsibility** | **Nacap** |
| **Response to Recommendation:** | Use of Gators where necessary now included in HAZID Register |
| **Completed by:** | **John Curtain** | **Date:** | **22/03/22** |
| **Review Comments:** | **Confirmed that the amendment to control has been included in HAZID Register** |
| **Review Completed by:** | **Jason Heard** | **Date:** | **22/03/22** |

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| **HAZID Action Close Out Sheet -General 0.16** |
| **Recommendation:** | Add in at Existing Controls 'Implementation of Nacap Safe Plant Interaction (SPIN) Program' |
| **Responsibility** |  |
| **Response to Recommendation:** | The Nacap SPIN Program has now been included within existing controls |
| **Completed by:** | **John Curtain** | **Date:** | **22/03/22** |
| **Review Comments:** | **Confirmed that the amendment to control has been included in HAZID Register** |
| **Review Completed by:** | **Jason Heard** | **Date:** | **22/03/22** |

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| **HAZID Action Close Out Sheet -General 0.19** |
| **Recommendation:** | add in at Existing Controls 'Use of tilt-tray and low-loaders for machine transport. ' |
| **Responsibility** | **Nacap** |
| **Response to Recommendation:** | Existing controls now have tilt tray and low loaders included for machine transport |
| **Completed by:** | **John Curtain** | **Date:** | **22/03/22** |
| **Review Comments:** | **Confirmed that the amendment to control has been included in HAZID Register** |
| **Review Completed by:** | **Jason Heard** | **Date:** | **22/03/22** |

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| **HAZID Action Close Out Sheet -Survey 3.1** |
| **Recommendation:** | Remove 'Hearing damage from hammering in stakes' item from Hazards & Risks column |
| **Responsibility** | **Nacap** |
| **Response to Recommendation:** | Hearing damage now removed from hazards and risks column |
| **Completed by:** | **John Curtain** | **Date:** | **22/03/22** |
| **Review Comments:** | **Confirmed that the amendment to control has been included in HAZID Register** |
| **Review Completed by:** | **Jason Heard** | **Date:** | **22/03/22** |

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| **HAZID Action Close Out Sheet -Foreign Services Location (FSL) 5.1** |
| **Recommendation:** | Include 'double eye protection' in Existing Controls |
| **Responsibility** | **Nacap** |
| **Response to Recommendation:** | Double eye protection control now added to FSL tab |
| **Completed by:** | **John Curtain** | **Date:** | **22/03/22** |
| **Review Comments:** | **Confirmed that the amendment to control has been included in HAZID Register** |
| **Review Completed by:** | **Jason Heard** | **Date:** | **22/03/22** |

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| **HAZID Action Close Out Sheet -FSL 5.1** |
| **Recommendation:** | Include 'appropriate cleaning mechanism for blockages' in Existing Controls |
| **Responsibility** | **Nacap** |
| **Response to Recommendation:** | Appropriate cleaning mechanism for blockages now added to existing controls |
| **Completed by:** | **John Curtain** | **Date:** | **22/03/22** |
| **Review Comments:** | **Confirmed that the amendment to control has been included in HAZID Register** |
| **Review Completed by:** | **Jason Heard** | **Date:** | **22/03/22** |

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| **HAZID Action Close Out Sheet -FSL 5.1** |
| **Recommendation:** | Include 'Pneumatic, machine compaction.' in Existing Controls |
| **Responsibility** | **Nacap** |
| **Response to Recommendation:** | Pneumatic, machine compaction now included within existing controls within FSL tab |
| **Completed by:** | **John Curtain** | **Date:** | **22/03/22** |
| **Review Comments:** | **Confirmed that the amendment to control has been included in HAZID Register** |
| **Review Completed by:** | **Jason Heard** | **Date:** | **22/03/22** |

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| **HAZID Action Close Out Sheet -General Civil Works (GCW) 6.2** |
| **Recommendation:** | Include 'Suitably competent/VOC'd operators' in Existing Controls |
| **Responsibility** | **Nacap** |
| **Response to Recommendation:** | Competent / VOC’D operators now added to GCW tab existing controls |
| **Completed by:** | **John Curtain** | **Date:** | **22/03/22** |
| **Review Comments:** | **Confirmed that the amendment to control has been included in HAZID Register** |
| **Review Completed by:** | **Jason Heard** | **Date:** | **22/03/22** |

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| **HAZID Action Close Out Sheet -GCW 6.2** |
| **Recommendation:** | Remove 'Cuts from wire' from Hazards & Risks |
| **Responsibility** | **Nacap** |
| **Response to Recommendation:** | Cuts from wire has been removed from hazards and risks within the GCW tab |
| **Completed by:** | **John Curtain** | **Date:** | **23/03/22** |
| **Review Comments:** | **Confirmed that the amendment to control has been included in HAZID Register** |
| **Review Completed by:** | **Jason Heard** | **Date:** | **22/03/22** |

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| **HAZID Action Close Out Sheet - Approval Authority & Notification Requirements** |
| **Recommendation:** | PM sign-off of moderate (M) risks with potential long-term injury or illness consequence. Responsible for ensuring the relevant higher authority is notified of the high consequence risks i.e OD and EMT. |
| **Responsibility** | **Nacap** |
| **Response to Recommendation:** |  |
| **Completed by:** | **John Curtain** | **Date:** | **23/03/22** |
| **Review Comments:** | **Confirmed that the amendment to control has been included in HAZID Register and signed off** |
| **Review Completed by:** | **Jason Heard** | **Date:** | **5/04/22** |

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| **HAZID Action Close Out Sheet - Approval Authority & Notification Requirements** |
| **Recommendation:** | OD sign-off of moderate (M) risks with potential Fatality or permanent disability consequence. Responsible for ensuring the relevant higher authority is notified of the high consequence risks i.e., EMT. |
| **Responsibility** | **Nacap** |
| **Response to Recommendation:** |  |
| **Completed by:** | **John Curtain** | **Date:** | **23/03/22** |
| **Review Comments:** | **Confirmed that the amendment to control has been included in HAZID Register and signed off** |
| **Review Completed by:** | **Jason Heard** | **Date:** | **5/04/22** |

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| **HAZID Action Close Out Sheet**  |
| **Recommendation:** | 12.3 – Update to include. Access via Seawall Road HDD1 – Traffic Control Plans in place (Reviewed and Approved) |
| **Responsibility** | **Nacap** |
| **Response to Recommendation:** | **Updated to Include** |
| **Completed by:** | **Paul Whyte** | **Date:** | **9/9/22** |
| **Review Comments:** |  |
| **Review Completed by:** | **Jason Heard** | **Date:** | **9/9/22** |

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| **HAZID Action Close Out Sheet**  |
| **Recommendation:** | 12.15 – Update to Include - Applicable Management Plans Approved prior to commencement of works |
| **Responsibility** | **Nacap** |
| **Response to Recommendation:** | **Updated to Include** |
| **Completed by:** | **Paul Whyte** | **Date:** | **9/9/22** |
| **Review Comments:** |  |
| **Review Completed by:** | **Jason Heard** | **Date:** | **9/9/22** |

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| **HAZID Action Close Out Sheet**  |
| **Recommendation:** | 7.9 – Add in Safety Essentials #3 Mobile Plant, #9 Foreign Services, #6 Lifting Equipment & VRD (Voltage Reduction Device) must be used |
| **Responsibility** | **Nacap** |
| **Response to Recommendation:** | **Updated to Include** |
| **Completed by:** | **Paul Whyte** | **Date:** | **9/9/22** |
| **Review Comments:** |  |
| **Review Completed by:** | **Jason Heard** | **Date:** | **9/9/22** |

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| **HAZID Action Close Out Sheet**  |
| **Recommendation:** | 7.10 – Updated item 4 to LTI and Item 6 to LTI/MTI |
| **Responsibility** | **Nacap** |
| **Response to Recommendation:** | **Updated to Include** |
| **Completed by:** | **Paul Whyte** | **Date:** | **9/9/22** |
| **Review Comments:** |  |
| **Review Completed by:** | **Jason Heard** | **Date:** | **9/9/22** |

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| **HAZID Action Close Out Sheet**  |
| **Recommendation:** | 4.4 Add in 2. Licenced drivers and experienced and Use only designated access points and existing pipeline cross-over points |
| **Responsibility** | **Nacap** |
| **Response to Recommendation:** | **Updated to Include** |
| **Completed by:** | **Paul Whyte** | **Date:** | **9/9/22** |
| **Review Comments:** |  |
| **Review Completed by:** | **Jason Heard** | **Date:** | **9/9/22** |

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| **HAZID Action Close Out Sheet**  |
| **Recommendation:** | 4.1 – Added in Use of slings permitted, but must be rated and tested and tagged and inspected prior to use |
| **Responsibility** | **Nacap** |
| **Response to Recommendation:** | **Updated to Include** |
| **Completed by:** | **Paul Whyte** | **Date:** | **9/9/22** |
| **Review Comments:** |  |
| **Review Completed by:** | **Jason Heard** | **Date:** | **9/9/22** |

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| **HAZID Action Close Out Sheet**  |
| **Recommendation:** | 4.10 Added in 2. Tools to be used to safely remove end caps. Soft mallets to be used for re-installation (not to be installed by banging on with hands) |
| **Responsibility** | **Nacap** |
| **Response to Recommendation:** | **Updated to Include** |
| **Completed by:** | **Paul Whyte** | **Date:** | **9/9/22** |
| **Review Comments:** |  |
| **Review Completed by:** | **Jason Heard** | **Date:** | **9/9/22** |

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| **HAZID Action Close Out Sheet**  |
| **Recommendation:** | 10.1 added in Hazard - External Road Users / General Public |
| **Responsibility** | **Nacap** |
| **Response to Recommendation:** | **Updated to Include** |
| **Completed by:** | **Paul Whyte** | **Date:** | **9/9/22** |
| **Review Comments:** |  |
| **Review Completed by:** | **Jason Heard** | **Date:** | **9/9/22** |