Work Package 4.4

Update Site User Requirements

Vehicle Interaction Control Improvement Project

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| WBS Parent | 4. VI Collision Control Deployment (Phase 4) |
| Work Package | 4.4 Update Site User Requirements  4.4.1 Site Functional Requirements  4.4.2 Site Performance Requirements  4.4.3 Site Technical and Infrastructure Requirements |
| Package Owner | Project Manager |
| Owner Organisation | Your Company |
| Participants | Project manager, project team, experienced operations personnel, site and divisional HSE personnel, site technical personnel, experienced maintenance personnel. |
| Capability Required | Oversight by project manager, project team and senior operations personnel. |
| Description | Developing and updating User Requirements for technology selection and operational deployment is assumed to be a core management competency for the sites and companies who adapt and apply the Vehicle Interaction Control Improvement Project Guide resources.  It is expected that the Project Manager will work with experienced personnel and apply existing site and company processes to update the site Capable Solution User Requirements based on:   1. Based on the outputs from the feasibility pilot(s) see WBS work packages in 4.3 Feasibility Pilots. 2. If operational deployment is approved, use the feasibility pilot result to update functional, performance, technical, infrastructure, logistics and support requirements for the selected technology option. 3. The site Capable Solution User Requirement update should reference the current Site Vehicle Interaction Control Framework. |
| Completion State | **Updated Site User Requirements for the operational deployment of technology** |
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**References:**

* Outputs from WBS work packages 4.1 Capable Solution User Requirements, 4.2 VI Collision Technology Selection Process, and 4.3 Feasibility Pilot
* Site Vehicle Interaction Performance Baseline
* EMESRT Vehicle Interaction [Body of Knowledge](https://emesrt.org/vici-bok/) to access resource materials:
  + [EMESRT Performance Requirement 5A (PR-5A) – Vehicle Interaction Systems](https://www.emesrt.org/wp-content/uploads/PerformanceRequirement-5A.pdf)
  + [EMESRT Functional Performance Scenarios Storyboards for Surface and Underground Mining](https://www.emesrt.org/vi-scenario-storyboards/)
  + [EMESRT Human Factors Design Reference Guide](https://www.emesrt.org/wp-content/uploads/HumanFactorsDesignGuide.pdf)
  + [Mining3 - Reference guide to support PDS sensor decision making](https://pdstoolkit.com/)
* ISO standard 21815 part 2 – CAS Interface Protocol for Level 9 intervention
* [ICMM Capable Solution Principles and Success Factors](http://www.emesrt.org/wp-content/uploads/ICMM_PrinciplesSuccessFactors.pdf)

ICMM ICSV – Vehicle Interaction Capable Solution definition.

* “A capable solution delivers better vehicle interaction control performance by improving the quality of decision-making from task execution through to mine operations and design.
* A capable solution considers relevant aspects of the operating environment, production requirements and equipment design.
* Where technology is a part of a capable solution, it is operationally integrated.”

**Notes**

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**Future recommendations and feedback**

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