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| Project title | Sander System Standards Compliance  |
| Client name   | AB Rail (AB Hoses and Fittings Ltd) |
| Date          | May 2020                            |

### SCOPE/OBJECTIVE

AEGIS provided our client, AB Hoses, with a standards list and compliance matrix, including a risk assessment for a proposed installation of a sanding system on Network Rail's fleet of Stoneblower OTMs. A new sand box and controls would be attached to the solebar of the OTM with connections to the existing OTM electric and pneumatic supplies. Switches were to be provided in the operator's cab to control the sanding application. AB Hoses requested the standards list matrix and risk assessments to assist in the Engineering change process for the installation of sanding equipment under RIS-2700-RST.

### HOW WE HELPED

AEGIS, with our considerable knowledge and expertise were able to identify the full suite of standards that were needed to approve the replacement sanding system. Close attention was paid to all aspects, including the effect on existing systems, structural integrity, system operation and electrical systems.

### OUTCOME

From this list of standards AEGIS produced a compliance matrix which detailed all the associated risks and safety related issues. AEGIS demonstrated how the compliance to the selected standards and detailed the evidence that would need to be provided to mitigate the identified risks.

This formed part of the Engineering change process under RIS-2700-RST (RIS-2700-RST

Issue 1, Rail Industry Standard for Verification of Conformity of Engineering Change to Rail Vehicles).

These documents would be used by AB Hoses to assist in the demonstration that the engineering change process and RIS-2700-RST has been complied with.

Mick Milhinch, Engineering Director at AB Hoses was extremely pleased with the deliverables and provided a statement:

"Our latest sander project, the OTM sander system, has been made a lot easier thanks to the assistance of James Johnson and the team at AEGIS Engineering Systems".

AEGIS have produced a compliance matrix; detailing all the compliance requirements for the system, and what would be acceptable evidence to demonstrate compliance, on a clause-by-clause basis.

This allows ourselves - as the supplier - the customer - as the safety case holder - and the machine owner - as the ECM - to all agree in advance exactly what needs to be in the engineering change pack and who's responsibility it is to provide it.

A common failing of modification projects, such as this, is failing to reach this understanding in advance and critical time being wasted to-ing and fro-ing hurriedly trying to assemble missing information at the last minute."

"AEGIS demonstrated how the compliance to the selected standards and detailed the evidence that would need to be provided to mitigate the identified risks."

