

PART D – DESCRIPTION OF SERVICES OR WORKS

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D1 GENERAL

RailCorp seeks to engage a licensed asbestos removal contractor (the Contractor) to undertake the removal of asbestos from the following locomotives:

1. Loco 5916 (Thirlmere)
2. Loco 6040 (Thirlmere)
3. Loco 5908 (Thirlmere)
4. Loco L390 (Goulburn)
5. Loco 1307 (Yass)
6. Loco 5461 (Valley Heights)

This will involve dismantling various components of the locomotive to gain access to the asbestos, removal and reassembly of the locomotives. The dismantling and asbestos removal will occur within appropriate enclosures whilst the locomotives are in situ.

All of the locomotives have heritage significance, and in accordance with obligations placed on RailCorp under the NSW Heritage Act 1977 as amended, the removal and replacement of any panels or components, must be undertaken in a manner that does not damage the locomotive or any components.

D1.1 Project Background

RailCorp has a legal obligation to maintain its heritage rolling stock, as determined by the NSW Heritage Act 1977, as amended in April 1999. RailCorp also has obligations under the Occupational Health and Safety Act 2000 to ensure the health and safety of employees, contractors and members of the public.

During service on the NSW railways, asbestos was used as an insulating medium on most steam locomotives. On retirement from revenue service, a number of locomotives were placed in the care and custody of the NSW Rail Transport Museum for preservation, in most cases with asbestos still existing on the locomotive.

RailCorp has appointed a project manager, as the RailCorp Representative to schedule the overall project and co-ordinate the work of the Contractor, the Heritage Specialists and the Occupational Hygienist.

D1.2 Location and Description of Sites

The 6 locomotives are located at the following Transport Museum facilities throughout New South Wales:

Locomotive **1307** located at Yass Railway Museum, Crago Street Yass

The Yass site is operated by the Yass Railway Museum Committee, which is a sub-committee of the local Council. It operates as a small museum and is only open to the

public on Sundays. The complex is secure and a key can be provided for access by the Contractor during normal business hours, Monday to Friday.

Locomotive **6040, 5916, 5908** located at Thirlmere Valley Museum, Barbour Road Thirlmere

The Thirlmere site is operated by the New South Wales Rail Transport Museum and is open to the public 10.00am – 3.00pm Monday to Friday and 9.00am – 5.00pm on weekends and public holidays. The working hours of the maintenance areas are 7.30am – 5.00pm Monday to Friday.

Locomotive **L390** located at Goulburn Rail Heritage Centre, Braidwood Road, Goulburn

The Goulburn site is operated by the Goulburn Locomotive Roundhouse Preservation Society and is open to the public from Tuesdays to Sundays inclusive 10.00am – 4.00pm. Access can be made available to the Contractor outside these hours, with prior agreement.

Locomotive **5461** located at Valley Heights Locomotive Depot Heritage Museum, Tusculum Road Valley Heights

The Valley Heights site is operated by the Blue Mountain Division of the New South Wales Rail Transport Museum. It preserves the depot buildings and the rail heritage items. It is opened to the public the first and third Sunday of every month. The Contractor will have flexible working hours, however, will not be able to work on the first or third Sunday of every month.

D2 SCOPE OF WORKS

Tenderers are required to refer to Appendices D1, D2 and D3 for the following Heggies reports detailing the required Scope of Works:

- Asbestos Removal Scope of Works Ref. 8421/01a/SOW dated 19 December 2006.
- Asbestos Survey Report Ref. 8421/01a/ASR dated 12 December 2006.
- Asbestos Materials Management Plan 8421/01/AMP dated 18 December 2006.

The 'Consultant' nominated in the Asbestos Removal Scope of Works reports refers to the Occupational Hygienist engaged directly by RailCorp. Details of this organisation will be forwarded on the Contractor on appointment.

The Contractor will be required to coordinate all works with the Occupational Hygienist.

D2.1 Details of Work – Dismantle and Reassembly

The Contractor will be required to:

- provide labour, materials and equipment to dismantle and reassemble parts and components of the locomotives as required to enable the access and removal of the asbestos from each locomotive, in accordance with Scope of Works document.

- appropriately mark and store in a secure place all components removed from the locomotive to facilitate re-assembly of the locomotive and components in the correct manner on completion of the asbestos removal works.
- on completion of the asbestos removal works from each locomotive and the issue of a Clearance Certificate by the Occupational Hygienist, re-assemble the locomotive to the condition existing prior to the commencement of work, or to such other condition as RailCorp may accept. All dismantling will occur within an appropriate asbestos removal enclosure, however, the reassembly will occur after asbestos is cleared and the enclosure is removed. The contractor will not be required to replace any insulation or packing under the locomotive clothing or lagging on piping.
- engage the following Heritage Specialists for the direction and supervision of dismantle and reassembly works:
 - For Yass contact Peter Anderson, Vice President Australian Rail Historical Society – ACT Division m 0418 624 507 or 4474 4122
 - For Thirlmere and Valley Heights contact Peter Berriman, President NSW Rail Transport Museum (m) 0412 610 024
 - For Goulburn contact Colin Grose, Secretary Goulburn Loco Roundhouse preservation Society fax (02) 4823 5762 or Cjba.grose@bigpond.com
- ensure all works are carried out under the supervision of the Heritage Specialist. The Heritage Specialist will be required to assist the Contractor in carrying out their works, including but not limited to:
- ensuring there is adequate space around the locomotive to accommodate the enclosure, dismantled parts, wash areas, etc.
- providing guidance and instruction in relation to dismantling components to access the asbestos, logging of dismantled parts, providing photographic evidence, etc.
- providing guidance and instruction to assembling parts back to original condition. (NOTE: In some instances, parts may not be re-useable. The Heritage Specialist can provide advice and may manufacture if replacement is necessary within the prescribed program).
- ensure at least one member of the dismantle and reassembly team is a qualified mechanical fitter. The Heritage Specialist will provide advice on the number of persons capable to work on each locomotive and estimated timeframes for the dismantling and reassembly processes.
- provide all plant and equipment necessary to carry out the work, including all personal protection equipment for the Heritage Specialists, Occupational Hygienists and the RailCorp Representative, as required by relevant legislations.
- ensure all on site personnel including the Heritage Specialist adhere to the Contractor's requirements in relation to occupational health and safety associated with exposure to asbestos.

- provide and install appropriate asbestos warning signage on each of the locomotives in accordance with AS1319 as it is anticipated that not all asbestos will be able to be removed. Locations and wording to be advised and agreed with the RailCorp Representative.
- provide and install additional signage on each of the locomotives, indicating that the above signage is for RailCorp maintenance staff only. Wording to be advised and agreed with the RailCorp Representative.

Please note:

It may be required for the Contractor to organise and manufacture new components that are not reusable, this will be treated as a variation to the Contract. RailCorp will accept extensions of time but will not accept delay costs. For example, if at the dismantling stage it becomes apparent that the boiler clothing (or part there of) requires replacement, the Contractor will be required to manufacture a new one (the Heritage Specialist may undertake this work or recommend a qualified person). If it is not available in time for the reassembly, the Contractor may be entitled to an extension of time claim, however, no delay costs. The Contractor will need to reschedule works to other locomotives.

D2.2 Decontamination Works

The Contractor is required to undertake the removal of asbestos from 6 steam locomotives, as detailed in Appendix D1, provide appropriate facilities and enclosures and ensure the Works are undertaken in a safe and proper manner that complies with legislation, and regulatory requirements of all relevant authorities.

The RailCorp Representative will liaise with the Contractor to establish procedures to be applied during the removal of asbestos from each locomotive to minimise risks to any contractors, personnel or visitors at the site.

The Contractor prior to commencement of work on each locomotive, to define a work plan for removal of the asbestos that –

- addresses the overall obligations placed on RailCorp by the NSW Heritage Act 1977 as amended, to manage and protect its heritage assets;
- identifies any additional components requiring disassembly to allow access to and removal of asbestos, and the arrangements to be implemented to minimise any damage or destruction to the components and/or the locomotive; and
- minimises any damage or destruction to the locomotive during removal of the asbestos.

The Contractor will be required to update or provide necessary information to update the Hazardous Materials Register in relation to the 6 locomotives.

The Contractor will also arrange for the disposal of the removed asbestos and any associated contaminated materials, and clean up the site to the satisfaction of RailCorp Representative, including provision of disposal documentation (delivery dockets, certificates etc from licensed premises).

D2.3 Schedule of Documents

In addition to any documents which may be incorporated into the Scope of Works in Appendix D1, the Contractor must adhere to the following:

- WorkSafe Australia – Asbestos: Code of Practice and Guidance Notes, August 1988. Any recommendations in the code shall be mandatory.
- WorkSafe Australia – Exposure Standard for Atmospheric Contaminants in the Occupational Environment, 1995.
- WorkSafe Australia - Exposure standards for atmospheric contaminants in the occupational environment: declared changes and additions to the national occupational standards, 1997.
- National Occupational Health and Safety Commission Code of Practice for the Safe Removal of Asbestos, 2nd Edition [NOHSC: 2002 (2005)].
- Australian Standard covering safety signs AS1319.
- Asbestos Legislation Amendment Bill 2006.
- Construction Occupations (Licensing) Regulations 2004.
- Dangerous Substances Act 2004 29.
- Any other relevant Standards or Codes published by the responsible Authorities or the Standards Association of Australia.

D3 TIMING

The project is expected to commence in late January or early February 2008. Note that SteamFest will be occurring at the Thirlmere site from 1 to 3 March 2008. No work can take place at this site over this period and any established 'bubbles', must be secure and visually unobtrusive for public access to the site.

Priority must be given to the locomotives at the Thirlmere site.

D4 OCCUPATIONAL HEALTH AND SAFETY

E4.1 Site-Specific Safety Management Plan

The Contractor must prepare a detailed Site-specific Safety Management Plan (SSMP) which identifies hazards associated with the Works at each site (refer to the Site Hazard Identification Form (Pre Tender). The SSMP should detail the hazardous control measures that will be implemented to ensure that people are adequately protected from risk of injury or illness and as a minimum should include the following; Statement of Responsibilities, OH&S Training, Incident Management, Site Safety Rules and Safe Work Method Statements.

D4.2 Working Close to Operation Tracks

- (a) The Contractor shall at all times during the period of the works take all necessary precautions to avoid any delay, obstruction or stoppage to railway traffic. Should any avoidable delay, obstruction or stoppage occur, the Contractor will be held responsible for any costs incurred as a consequence.
- (b) The Contractor shall comply with the minimum clearances from the track centreline. It should be noted that the specified horizontal clearance applies to 300mm below the rail level.

- (c) It will not be required for Contractor's employees and subcontractors to hold a Track Safety Awareness Certificate for any of the sites. However, it will be mandatory for the Contractor's employees and subcontractors to attend a site induction at Thirlmere which will cover basic track safety awareness. If applicable, the Contractor will be required to provide constant updates of site issues to the site operational personnel and shall maintain constant communication with this person(s) regarding all project matters.

D5 SUPERVISION - PRELIMINARIES

The Contractor is responsible for:

- (a) the continuous and detailed mandatory inspections and supervision of the Work under the Contract on site whilst Works are being undertaken;
- (b) The Contractor or any sub-contractors engaged on the Work must be registered or licensed to carry out the Work under the Contract. The Contractor may be required to produce evidence of registration or licence prior to any commencement of the Work under the Contract.
- (c) the co-ordination and control of the Work under the Contract. The Contractor must programme and direct all sub-contractors, Consultants and suppliers and ensure that:
 - (i) all orders are placed;
 - (ii) materials are removed;
 - (iii) resources are on Site, at the time required to avoid delay;
- (d) the timely ordering of all materials or plant and equipment for the work under the Contract;
- (e) all necessary work under the Contract, being work not specifically mentioned in the Contract documents, but which is necessary and/or inferred for the work under the Contract to achieve the desired scope and quality;
- (f) physically co-ordinating the detailed set out of the Work under the Contract.
- (g) liaison with operators of the sites as required.

D6 MEETINGS

The Contractor must attend all Meetings as required by the RailCorp Representative. It is anticipated that Site Meetings will be held at the commencement and upon completion of the works or as required. Project Meetings will generally be held monthly at in the Sydney CBD, unless specifically nominated.

Minutes of both the Project and Site Meetings shall be kept by the RailCorp Representative and copies passed to attendees.

D7 INSPECTION

The RailCorp Representative may make inspections on Site. These inspections may occur with short notice (minimum 24 hour notice) and the Contractor must provide a senior representative during such inspections. The RailCorp Representative may be accompanied on all inspections by an expert adviser or others as they see fit.

D8 PROTECTION OF EXISTING INFRASTRUCTURE AND STRUCTURE

Works under this Contract shall proceed in a manner that will not damage or disturb the existing structures, infrastructure or railway tracks. Infrastructure includes all track, stanchions, ballast, track drainage, signalling equipment and overhead wiring.

Appropriate protection is to be installed by the Contractor where necessary to safeguard the existing infrastructure and tracks.

D9 SERVICES**D9.1 Services during Works**

Electricity and water are available at all sites. The Contractor must make their own arrangements for temporary services connections. The Contractor must make all payments for fees and charges for connection, and any alterations and subsequent disconnection. The Contractor may need to negotiate with the site operator and pay a contribution towards services usage.

D9.2 Power leads

The Contractor is responsible for its own electrical safety and must ensure that all leads, sockets, plugs and equipment are in good and safe working condition. The Contractor must:

- (a) test all electrical leads; and
- (b) tag all leads.
- (c) show relevant safety tags

D10 SITE CLEANLINESS

The Contractor must ensure the clean and orderly performance of the work under the Contract, including the regular removal of all rubbish, debris, surplus materials etc from the Site and the working areas.

The Contractor is also responsible for the appropriate disposal of all rubbish and other material removed from the Site. The Contractor must enclose rubbish in appropriate containers such as plastic garbage bins or large mobile bins, before removal.

D11 STORAGE AND SITE ACCOMMODATION

If required, the Contractor must store materials and equipment and locate site accommodation on the Site in the areas nominated by site operator to minimise hazards to persons, materials and equipment. The Contractor must keep storage areas and site accommodation neat and tidy. The Contractor must not use areas outside the Site for storage.

Existing facilities will be available at each site for use by the Contractor for meals, morning teas, etc. There is limited internal lockable storage available.

D12 SITE AMENITIES

Existing facilities at each site will be available for use. Should the existing facilities be inadequate for the Contractor's requirements, the Contractor will be responsible for the provision of additional facilities at their cost.

D13 PRACTICAL COMPLETION

In addition to the requirements set out in the Contract, the Contractor must ensure that the following requirements have been satisfied before Practical Completion:

- (a) The Contractor must carry out the air monitoring test after asbestos removal and submit test results to the RailCorp Representative.
- (b) The Contractor's machinery and other major items of construction plant are removed from the site.
- (c) The Contractor must rectify or replace any damage to existing buildings, roads and footpaths or items stored by the site operators.
- (d) Site area has been left clean, level to acceptable grade, reasonably compacted and free of any rubbish.

APPENDIX D1 HEGGIES ASBESTOS REMOVAL SCOPE OF WORKS Ref. 8421/01a/SOW

APPENDIX D2 HEGGIES ASBESTOS SURVEY REPORT Ref. 8421/01a/ASR

**APPENDIX D3 HEGGIES ASBESTOS MATERIALS MANAGEMENT PLAN Ref.
8421/01/AMP**