



SAFE WORK PROCEDURE

Site: Eraring Power Station	Date: 21/2/06
Activity: Ash Hopper Pickling/Passivation	Procedure No: 123-02
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Scope of this Procedure:

This procedure covers the passivation of stainless steel components on boiler ash hoppers. This work is required to restore the stainless steel protective oxide coating after welding or contamination, so that the stainless steel won't rust.

This procedure has been prepared in accordance with Eraring Energy Procedure for Pickling and Passivation of Stainless Steel.

Purpose of Procedure:

The purpose of this procedure is to prevent burns or inhalation of fumes given off by the chemicals used in this process. These chemicals contain hydrofluoric and/or nitric acid and are VERY aggressive.

Activities Required:

The procedure sets out mandatory precautions to minimise the risk of injury.

The supervisor of this area is responsible for ensuring that these mandatory precautions are implemented.

The precautions to be observed are set out on the attached sheet.

Safe Work Procedure 123-02

Mandatory Precautions for Use of Pickling Paste

1. Eraring Energy must be notified 2 days before the work is done. A copy of the MSDS for the product used must be sent to Eraring Energy's contract administrator.
2. A toolbox meeting must be held with all staff involved in this work prior to work commencing, explaining the process and precautions required.
3. Identify the location of the nearest safety shower and first aid kit prior to commencing application.
4. The work area is to be marked with barrier tape and signs, and no other work is permitted inside the work area whilst pickling is in progress. An observer is to be stationed outside the work area to monitor the application and removal process.
5. Work area must be open and well ventilated. If the work area is confined or enclosed so that fumes could build up then THIS PROCEDURE IS NOT SUITABLE.
6. The following items are to be kept in the immediate work area:
 - a. The MSDS for the pickling paste used.
 - b. A supply of clean fresh water for washing splashed chemical from skin or eyes. This can either be a clean container (minimum 10 litres), or a hose with a shut-off valve at the nozzle end.
 - c. If no fresh water hose is available, a second container of clean water will be required for washing gloves and tools after work is completed.
 - d. A supply of Calcium Gluconate Gel, which is need for first aid in the event of a splash/spill.
7. The following Personal Protective Equipment is required for persons applying and washing off the pickling paste. The equipment is to be worn before a container of the pickling paste is open and remain on until container is re-sealed and all wash-up work is complete.
 - a. Wet weather clothes (jacket and trousers) and gumboots.
 - b. Gauntlet type rubber gloves
 - c. Protective Eyewear with side shields
 - d. A full face shield
8. Do not use pickling paste straight from the original container. A small amount, suitable for one use, is to be transferred to an open top container for use on each job. This reduces the contamination of the outside of the original container (which may be re-used), and also reduces risks of tipping/shaking the original containers to extract the contents when it is part used. It also reduces product contamination in the original container. Dilute and dispose of any remaining material in the temporary container at the completion of the job.
9. The pickling paste is to be applied and left on the surface in accordance with the manufacturer's recommendations. The paste is washed off with fresh water, which must be directed to the ash sluiceways – NOT STORMWATER DRAINS.

Safe Work Procedure 123-02 First Aid Response

1. Eye Contact
 - a. Immediately start washing eyes with running water. Continue for at least 15 minutes
 - b. Transport to hospital without delay
2. Skin Contact
 - a. Strip off contaminated clothing
 - b. Wash with copious amounts of fresh water for at least one minute
 - c. Avoiding contamination of the hands, massage calcium gluconate gel into affected areas. Pay particular attention to creases in skin.
 - d. Transport to hospital without delay.