

Barminco

Agnew

Onsite Product Trial Plan

Jumbo Hose Wrap Sleeve

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## 1. General

Barminco has assisted in the development of an innovative idea that has the potential to save time and costs within the Engineering Department. Barminco has been approached to trial a new innovative product that has not gone to market as yet. The hose wrap sleeve has been tested and developed over a number of years and is now in the final stages of operational trials.

The design allows for simple fitment and removal with no foreseen special tools and has features which existing Spiral Guard does not; such as containing oil in the event of hose burst and improved fire rating which the existing industry standard loom wrap does not have.

The product is supplied free of charge for the trial and is to be used in the same application as an existing product.

Peter May was a Director of the company which introduced Spiral Guard to the industry. This has afforded Peter with the knowledge to build on an already proven product. Peter has not been associated with this company for a considerable length of time and is a serving employee of Barminco.

## 2. Scope

Preliminary operational testing by installing and operating a development drill with hose wrap sleeve on one boom and existing product (Spiral Guard) on the other for comparison.

Gather feedback from operators, maintainers and the EHS department on the installation, maintenance and operation of the product.

Use the information gathered along with the input from other internal departments to evaluate the product for the application.

## 3. Safety

### General

The product is manufactured using flame retardant thermoplastic polyurethane to the following standards:

- UL 94 HB
- MSHA
- ISO1180

The existing Spiral Guard is Polyethylene which is not flame retardant.

## **Risk Assessment**

A risk assessment with the focus on safety is to take place as a priority before proceeding with the trial. Unacceptable risk is to be addressed and the trial is not to proceed until such time it is resolved. The onsite EHS Co-coordinator is to be consulted in regards to the risk assessment process.

The risk assessment is to consider as a minimum:

### ***Installation***

- Location of fitment
- Elevated heated components
- Workplace

### ***Commissioning***

- Stored energy sources
- Bystanders rubber-necking
- Tooling left on the job
- Flammable objects such as rags left on the job.
- Supervisor inspection

### ***Operation***

- Training

### ***Maintenance***

- Training

## 4. Methodology

### What

Twin boom development drill JB0123 on the right hand boom to compare to the left boom fitted with Spiral Guard.

- Trial product - hose wrap sleeve
- Jumbo straps to secure the sleeve in place.

The product for trial is supplied free of charge.

### Where

The trial will take place at the Agnew Underground Operations.

### When

The trial is to start night shift Wednesday 22nd May 2013. The trial is expected to be monitored daily and will cease when the life of the product is reduced to an acceptable level whereby it can be removed before failure and returned to normal when in for scheduled maintenance and therefore not impinging on operational requirements.

### Who

The trial will involve the site operators, site maintainers, site EHS and Hazelmere engineering. The Senior Maintenance Foreman will be the point of contact for the trial.

### How

The installation work is to be carried out by competent tradespersons who are qualified for the work at hand.

A work order is to be raised and all materials are to be ordered against this to ensure costs are captured.

The installation and commissioning details are to be captured on:

- Appendix: 2 Installation
- Appendix: 3 Commissioning Sheet

The feedback data is to be collected using:

- Appendix: 1 EHS Feedback Sheet
- Appendix: 4 Maintenance Feedback Sheet
- Appendix: 5 Operator Feedback Sheet.

The onsite operators of the affected plant are to complete an Operator Feedback Sheet for every swing while the trial is in progress, this should be done towards the end of the swing to ensure the feedback is accurate.

The Maintenance Foreman will be responsible for ensuring the Maintenance Feedback Sheet is completed weekly when the plant is in for scheduled servicing or when a related maintenance issue arises.

The Maintenance Supervisor is to take photos of both the left and right boom for comparison and forward these onto the site Maintenance Co-coordinator for filing.

The shift fitter is to check the trial product daily and report the condition to the Maintenance Foreman.

The EHS coordinator onsite is to complete the EHS Feedback Sheet at the start of the trial and towards the end of the trial as a minimum or at any other time where deemed necessary.

All relevant information is to be collated and forwarded to the Engineering Manager. This information may include but will not be limited to:

- Work request/defect entries
- Feedback forms
- Pre-starts
- Minutes of meetings
- Toolbox meetings
- Safety meetings
- Incident investigation
- Photographs

The information gathered will be evaluated by the Hazelmere Engineering department in consultation with other internal departments. The outcome will influence what the group uses as standard.

## 5. Appendices

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Appendix: 1 EHS Feedback Sheet

Asset: JB0123  
 Site: Agnew

Date: 4-7-03  
 Department: EHS

Have you seen the risk assessment/s for this trial?	Yes
Have you been involved in the evaluation of the product	Yes
Have you observed the product in operation?	Yes. Several times
Are there any issues you would raise in regards to this product?	No
What benefits do you see in this product related to safety and or training.	homogeneity, ease of use central protection of hoses * No Fluid injection
In your opinion does this product serve better in relation to Safety and Training than other similar products?	Yes. Better than spiral wrap
What training considerations do you see are required for this product?	Application

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Other comments	
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Name: Leicester D  
Sign: [Signature]

Role: EUS  
Date: 4-7-12

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Appendix: 2 Installation Feedback Sheet

Asset JB0123  
 Site Agnew

Date: 22/5/13  
 Department: Engineering

Have you reviewed the risk assessment for this trial?	
What boom was this product fitted to?	
Was the alternate boom fitted with new Spiral Guard?	
How many jumbo straps were used?	
How many sleeves were used	
Ensure Supervisor takes photos of the install. Supervisor to forward these onto Hazelmere Engineering	
How long did it take to install?	
Detail the labour involved by role, number and the man hours for each.	
List extra materials required to complete the installation.	
Were there any special tools needed? If so provide details.	

Are there any special techniques or training required for the installation?	
What length were the sleeves	
Other comments	

Name \_\_\_\_\_  
 Sign: \_\_\_\_\_

Role: \_\_\_\_\_  
 Date \_\_\_\_\_

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Appendix: 3 Commissioning Sheet

Asset JB0123  
Site Agnew

Date: 22/5/13  
Department: Engineering

Have you reviewed the risk assessment for this trial?	
What are the machine and percussion hours for left and right booms	Right boom 5675 r/h drifter hours.
Are all hoses bound and secured?	
Does the hose loom position lay as it normally would?	
Does the wrap cove the entire loom length as normal?	
Was there any wastage; if so what?	
Are you satisfied the installation is safe and ready to be placed into service?	
Supervisor has inspected and given final approval?	

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Other comments	
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Name: \_\_\_\_\_  
Sign: \_\_\_\_\_

Role: \_\_\_\_\_  
Date: \_\_\_\_\_

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Appendix: 4 Maintenance Feedback Sheet


Asset: JB0123  
Site: Agnew

Date: 3/7/13  
Department: Engineering

What are the machine and percussion hours for left and right boom	6351 LH 5946 RH.
Have there been any maintenance issues?	NO
What did you do to rectify the issue?	N/A
Could the issue have been avoided? If so how?	N/A
What do you like about the product?	EASY TO WORK WITH
What don't you like about the product?	
What would you change to improve the product?	

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Describe the condition of the trial hose wrap sleeving.	INTACT FEW RIPS & TEARS. still usable.
How does the trial product fair in relation to the Spiral Guard on the alternate boom.	good WHH has been wrapped twice.
In your opinion will the trial sleeve last until the next scheduled service?	Yes.
Other comments	Hose are in good condition.

Name: EVAN STEWART  
 Sign: 

Role: MATT FOULMAN  
 Date: 3/8/13



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Appendix: 5 Operator Feedback Sheet

Asset: JB0123  
Site: Agnew

Date: 3-6-13  
Department: Operations

How many shifts have you used this machine with the trial product fitted?	6 this swing
Does the product work	Yes
Is the product easy to take on and off use?	Yes
What do you like about the product	Don't need to <del>have</del> change hoses
What don't you like about the product?	Not much
What would you change?	Not much
Does the product save time?	Yes not changing hoses
Detail operational issues you see with the product.	

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Are these better than the previous cameras you may have used?	yes
Do you feel this has enhanced the safety in carrying out your role?	yes
Which boom tends to work in the harsher environment?	R14.
Other comments	

Operator: Q Payne  
 Sign: [Signature]

Role: Jumbo opp  
 Date: 3-6-13