GODDEN
MACKAY

BAY 1 SOUTH

Item Name: Rootes No.5 Blower | **Item No.** 41

Name Plate: NSWGR No. 751 THWAITES BROTHERS LTD ROOTES BLOWER No.5 BRADFORD YORKSHIRE 1903 PATTERN

Associated Items:

Individual	☐	
Assemblage	☐	
System	☑	Steam
Collection	☑	Blowers 41, 42, 61.

Description: The Rootes Blower is a single piston steam engine with twin shafts operating a counter-rotating vane air pump. The Blower supplies high volume low pressure air to the blacksmiths forges. The power pack is a simple vertical steam cylinder with a single shaft which is connected to a cross-head which has twin crank shafts. Each of the crank shafts is fitted to a driving wheel, direct coupled to a vane shaft.

History: The Rootes Blower was installed in 1904 to supply low pressure air to the Blacksmiths Forges. It is believed it was located in this position and has remained here since installation.

Function and Operation: The blowers supply air at low pressure compared to the air compressors which supply high pressure air. High pressure air is unsuitable for forges. When operating, the blower was turned on by opening the steam valve. The air was supplied to the furnaces or directed to exhaust.

Location: Bay 1 South 15W

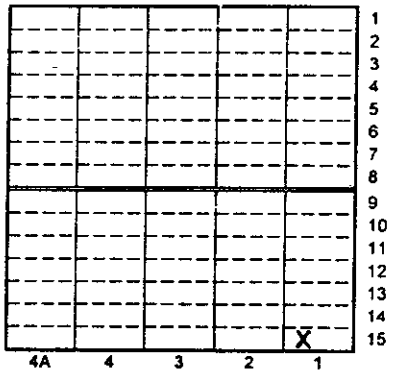
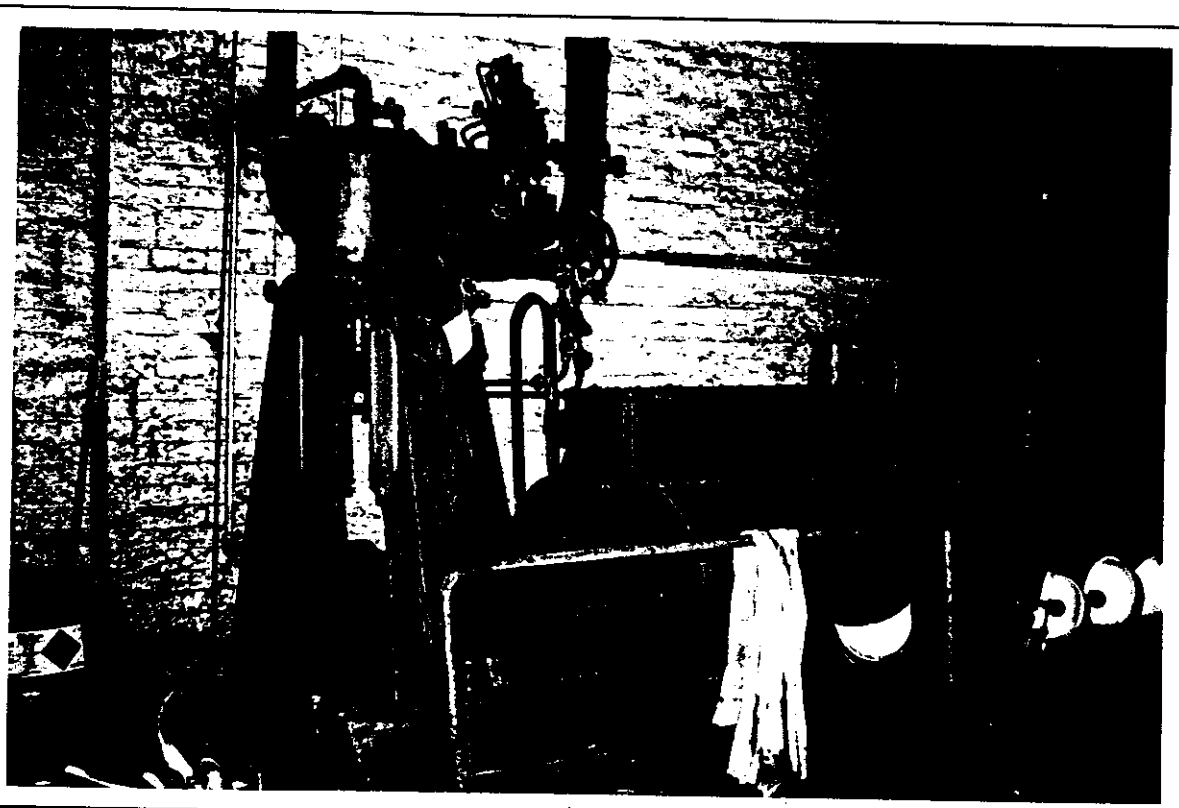


Photo: **FILM No.** 95-169-1-8 **Photographed and inspected December 1995**



Item Name: Rootes No.5 Blower | **Item No.** 41

Condition:
In general, the item appears to be in operable condition providing power sources are connected and the item is cleaned, serviced and tested. The external surface of the item has patches of superficial rust and bare metal. The condition of the power source is unknown and the power source has probably been disconnected.

Significance Matrix

	Historical	Aesthetic	Social	Technology/ Research Potential
Rare	☒	☒	☐	☒
Repres-entative	☒	☐	☐	☒

State Historical Themes:

Category ☐ Moveable Item ☐ Industrial Relic

Themes
- ☐ 13 Transport
- ☐ 15 Utilities
- ☐ 16 Industry
- ☐ 18 Technology
- ☐ 20 Government Administration

Statement of Significance

The item was an integral part of the Eveleigh Locomotive Workshops being associated with their operation for over 80 years. The item is an integral part of the steam system. The item represents former manufacturing technologies now rarely evident in operating workshops. The item is impressive in size and form and exhibits a unity in its design and detail. The item has research and education potential for developing an understanding of early engineering practice.

Conservation Policy: The item is to be retained in its present location and be preserved as part of the Blower collection and Steam system to which it belongs. The item is to be preserved by being cleaned, serviced and maintained according to the implementation and maintenance schedules given below.

Policy Implementation:

The machine is to be stripped, all cylinders cleaned and dried, all bearings and glands repacked, all internal bare metal surfaces are to be dried and greased to prevent rust. All external surfaces are to be cleaned and degreased using appropriate methods. All superficial rust is to be removed or treated. All external surfaces are to be treated with an appropriate sealant such as Shell ENSIS fluid or polycrystalline wax. All pipes are to be disconnected, cleaned, dried and treated with rust inhibitor. They may then be reconnected. All operating surfaces exhibiting a normally bright finish should be suitably polished and coated with an appropriate sealant such as Shell ENSIS fluid or a polycrystalline wax. Conserve in situ.

Maintenance Schedule

Inspect all external surfaces for rust every 12 months. Where necessary, coat as recommended in the implementation section. Every 5 years internal surfaces should be inspected for rust. Any rust or oxidation product must be treated suitably by being removed and coated with an inhibitor and sealant. Inspect for physical damage and deterioration every 12 months and implement repair as necessary. All operating surfaces exhibiting a normally bright finish should be suitably polished and coated with an appropriate sealant such as Shell ENSIS fluid or a polycrystalline wax.

Interpretation:

Item Name: Rootes No. 6 Blower | **Item No.** 42

Name Plate: NSWGR No. 755 THWAITES BROTHERS
No.6 ROOTES PATENT BLOWER BRADFORD YORKSHIRE

Associated Items:

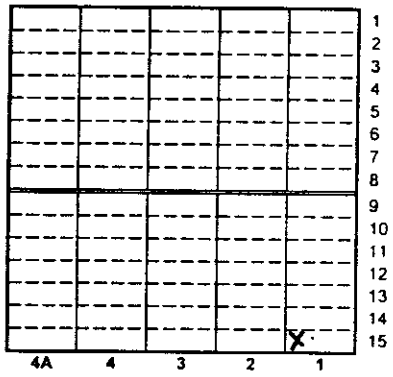
Individual	☐	
Assemblage	☐	
System	☑	Steam
Collection	☑	Blowers 41, 42, 61.

Description: The Rootes Blower is a single piston steam engine with twin shafts operating a counter-rotating vane air pump. The Blower supplies high volume low pressure air to the blacksmiths forges. The power pack is a simple vertical steam cylinder with a single shaft which is connected to a cross-head which has twin crank shafts. Each of the crank shafts is fitted to a driving wheel, direct coupled to a vane shaft.

History: The Rootes Blower was installed in 1911 to supply low pressure air to the blacksmiths forges. It is believed it was located in this position and has remained here since installation.

Function and Operation: The blowers supply air at low pressure compared to the air compressors which supply high pressure air. High pressure air is unsuitable for forgers as the amount of air going through is disruptive. When operating, the blower was turned on by opening the steam valve. The air was supplied to the furnaces or directed to exhaust.

Location: Bay 1 South 15W



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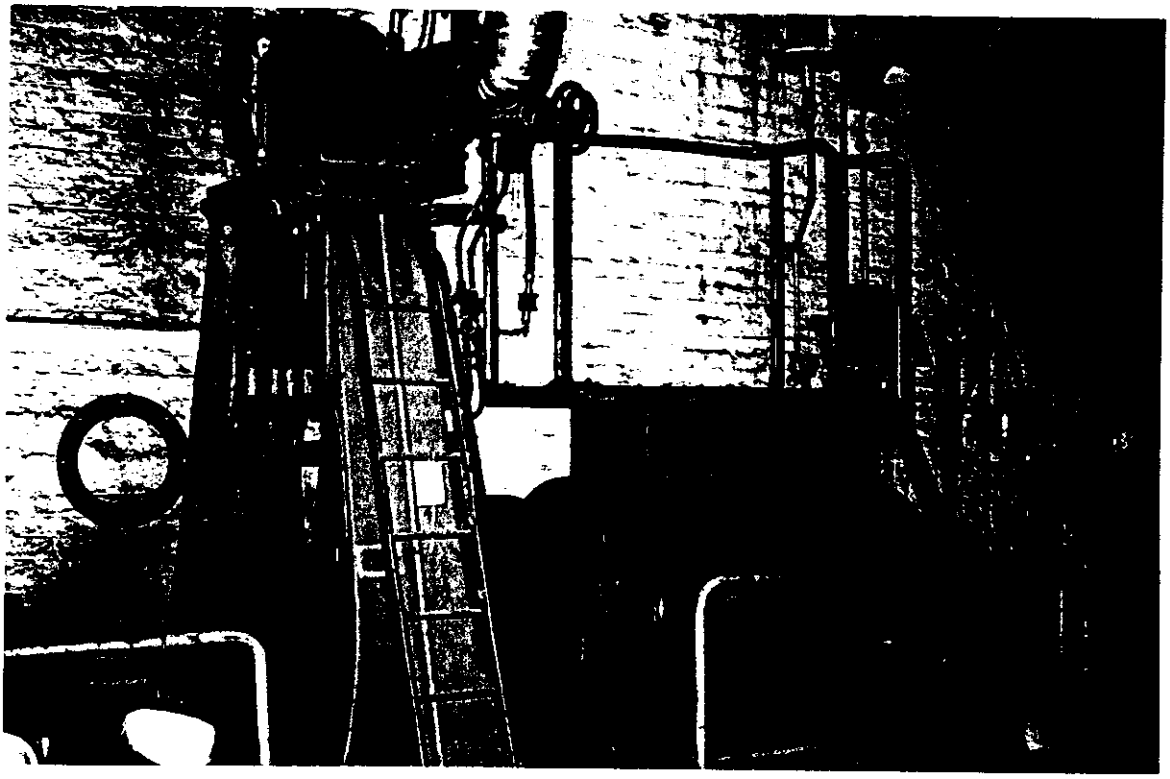


Item Name: Rootes No.6 Blower | **Item No.** 42

Condition:
In general, the item appears to be in operable condition providing power sources are connected and the item is cleaned, serviced and tested. The external surface of the item has patches of superficial rust and bare metal. The condition of the power source is unknown and the power source has probably been disconnected.

Significance Matrix

	Historical	Aesthetic	Social	Technology/ Research Potential
Rare	☒	☒	☐	☒
Repres-entative	☒	☐	☐	☒

State Historical Themes:

Category ☐ Moveable Item ☐ Industrial Relic

Themes
- ☐ 13 Transport
- ☐ 15 Utilities
- ☐ 16 Industry
- ☐ 18 Technology
- ☐ 20 Government Administration

Statement of Significance

The item was an integral part of the Eveleigh Locomotive Workshops being associated with their operation for over 80 years. The item is an integral part of the steam system. The item represents former manufacturing technologies now rarely evident in operating workshops. The item is impressive in size and form and exhibits a unity in its design and detail. The item has research and education potential for developing an understanding of early engineering practice.

Conservation Policy: The item is to be retained in its present location and be preserved as part of the blower collection and steam system to which it belongs. The item is to be preserved by being cleaned, serviced and maintained according to the implementation and maintenance schedules given below.

Policy Implementation:

The machine is to be stripped, all cylinders cleaned and dried, all bearings and glands repacked, all internal bare metal surfaces are to be dried and greased to prevent rust. All external surfaces are to be cleaned and degreased using appropriate methods. All superficial rust is to be removed or treated. All external surfaces are to be treated with an appropriate sealant such as Shell ENSIS fluid or polycrystalline wax. All pipes are to be disconnected, cleaned, dried and treated with rust inhibitor. They may then be reconnected. All operating surfaces exhibiting a normally bright finish should be suitably polished and coated with an appropriate sealant such as Shell ENSIS fluid or a polycrystalline wax. Conserve in situ.

Maintenance Schedule

Inspect all external surfaces for rust every 12 months. Where necessary, coat as recommended in the implementation section. Every 5 years internal surfaces should be inspected for rust. Any rust or oxidation product must be treated suitably by being removed and coated with an inhibitor and sealant. Inspect for physical damage and deterioration every 12 months and implement repair as necessary. All operating surfaces exhibiting a normally bright finish should be suitably polished and coated with an appropriate sealant such as Shell ENSIS fluid or a polycrystalline wax.

Interpretation:

Item Name: Blacksmiths Forge **Item No.** 44

Name Plate: NSWTD FB 12 50 -

Associated Items:

Individual	☐	
Assemblage	☑	Electropneumatic 7CWT 44, 45, 58-60, 62AB, 66F, 66A.
System	☐	
Collection	☑	Forges 27A-H, 44, 59, 87, 88, 90, 93, 97, 99.

Description: This forge varies from other forges in the shop in that it is constructed from angle iron and sheet steel for the canopy while the forge itself is brickwork. The tuyere which supplies the air to the forge is water cooled. It is not known why this forge is located in this position but it is possible that the previous standard cast-iron railway pattern forge reached the end of its life. Rather than move another forge, this one was constructed specifically for this location.

History: The history of the item is unknown.

Function and Operation: The forge is operated in precisely the same way as the other blacksmiths forges with the hearth having a bottom entry for the air and the water cooled tuyere entering from the rear. The amount of air supplied to the forge is controlled by the blacksmith through a small lever.

Location: Bay 1 South 14W

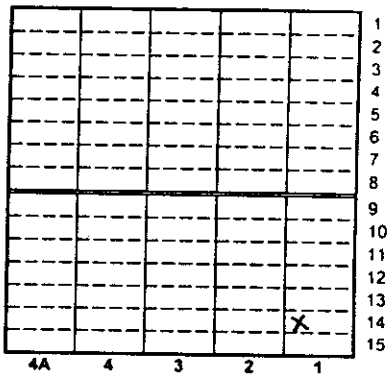
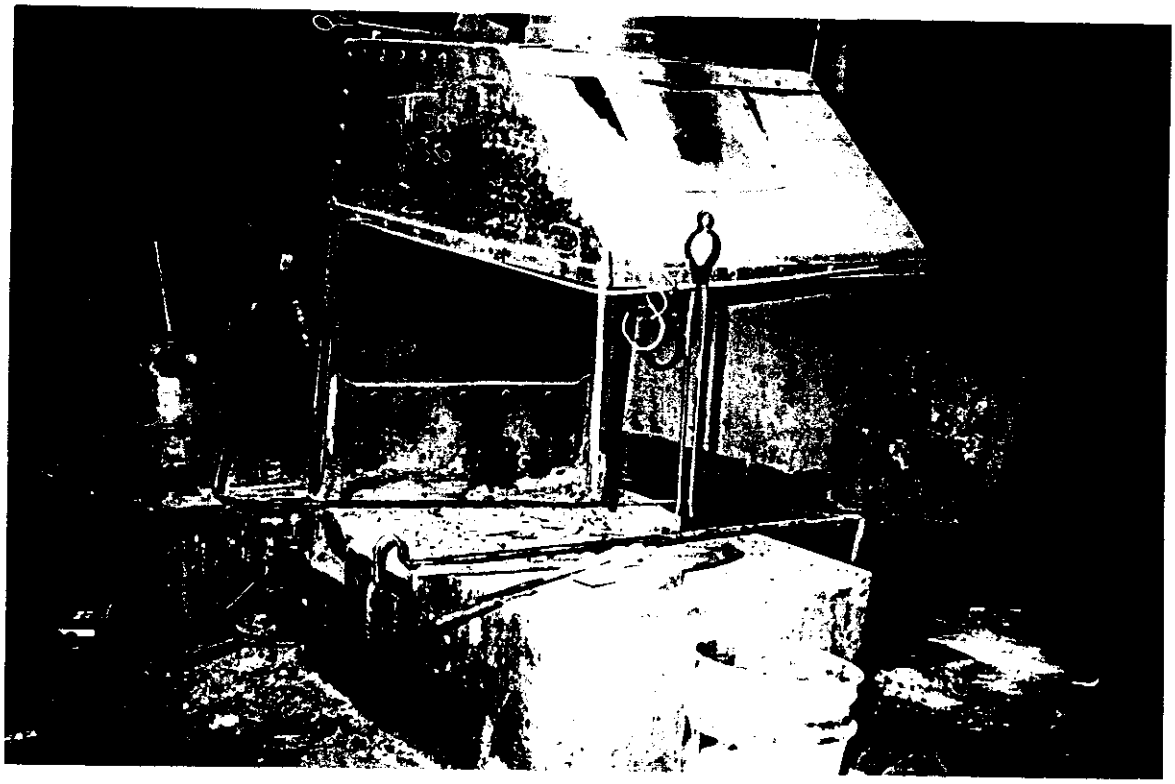


Photo: **FILM No.** 95-169-1-11 **Photographed and inspected December 1995**



Item Name: Blacksmiths Forge | **Item No.** 44

Condition:
In general, the item appears to be in operable condition providing power sources are connected and the item is cleaned, serviced and tested. The item exhibits heavy rust in places. In places the sheet metal cover of the item is in ruinous condition.

Significance Matrix

	Historical	Aesthetic	Social	Technology/ Research Potential
Rare	☒	☐	☐	☒
Repres-entative	☒	☐	☐	☒

State Historical Themes:

Category ☐ Moveable Item ☐ Industrial Relic

Themes
- ☐ 13 Transport
- ☐ 15 Utilities
- ☐ 16 Industry
- ☐ 18 Technology
- ☐ 20 Government Administration

Statement of Significance: The item was an integral part of the Eveleigh Locomotive Workshops being associated with their operation for over 50 years. The item has research and education potential for developing an understanding of early engineering practice. The item will yield information on the nature of past work practices. The item and its operation is easy to interpret from its existing fabric.

Conservation Policy:

The item is to retained in its present location and be preserved and reconstructed as part of the forge collection and electropneumatic system to which it belongs. The item is to be reconnected to its power source and made operational. The item is to be preserved by being cleaned, serviced and maintained according to the implementation and maintenance schedules given below.

Policy Implementation:

All necessary repairs should be carried out to keep the item operational. Preservation action will depend on the amount of use the item is to receive. Conserve in situ.

Maintenance Schedule: The item is to be inspected annually and appropriate repairs and conservation carried out.

Interpretation:

Item Name: 7CWT Crane **Item No.** 45

Name Plate: L499 LOAD NOT TO EXCEED 7CWTS

Associated Items:

Individual	☐	
Assemblage	☑	Electropneumatic 7CWT 44, 45, 58-60, 62AB, 66F, 66A.
System	☐	
Collection	☑	Jib Cranes 30, 45, 46, 50, 55, 58, 76, 77, 80, 84, 183, 195.

Description: This small crane is of the jib-type. It has a kingpost constructed of C-Section steel. The jib is universal section and the jib is counter-weighted at its rear end. The jib is braced front and rear by twin steel straps. The jib carries a small carriage on rollers which is moved manually and from which is suspended an adjustable chain holder which held balanced tongs for gripping work which was being forged under the electropneumatic hammer.

History: The history of the item is unknown but it was erected in this position prior to World War II.

Function and Operation: The tongs in which the material was held were passed through the chain loop and the material was manipulated under the electro-pneumatic hammer.

Location: Bay 1 South 14W

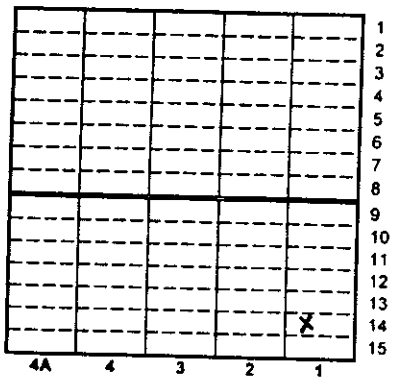
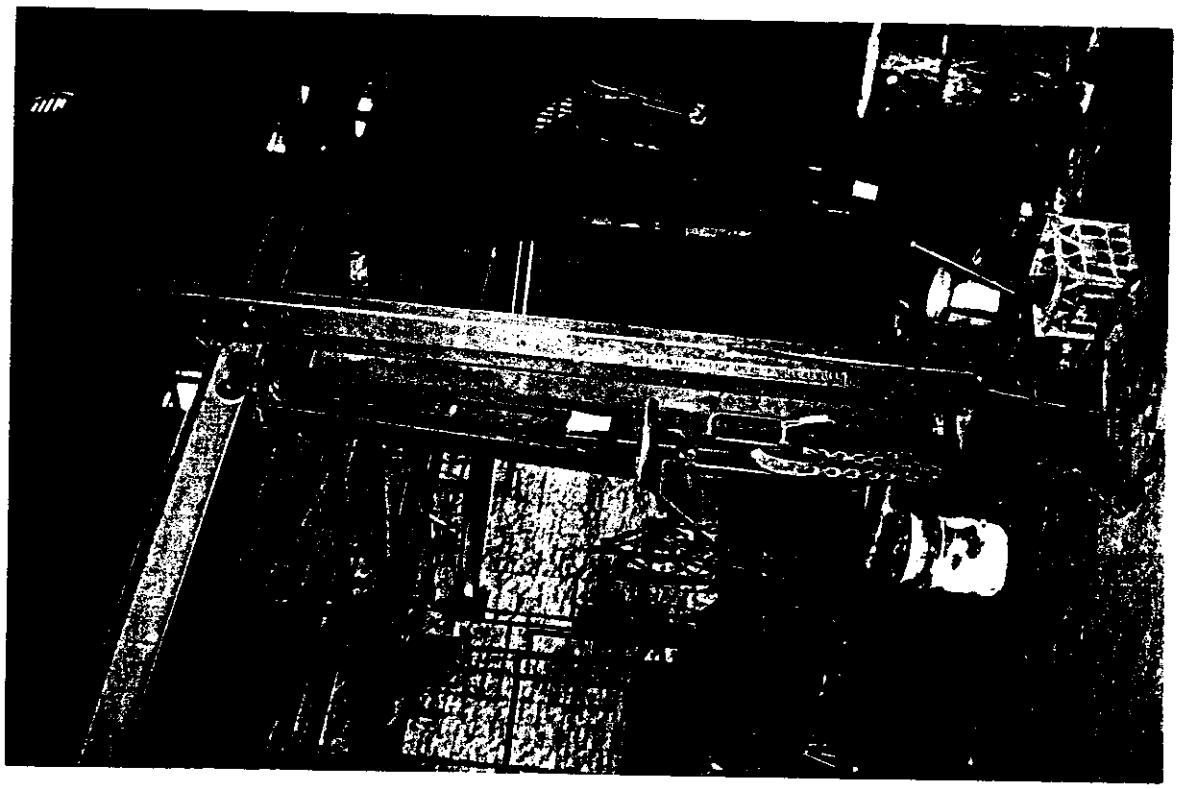


Photo: **FILM No.** 95-169-1-12 **Photographed and inspected December 1995**



Item Name: 7CWT Crane | **Item No.** 45

Condition:

The item is in good structural repair and has no obvious signs of rust.

Significance Matrix

	Historical	Aesthetic	Social	Technology/ Research Potential
Rare	☐	☐	☐	☐
Repres-entative	☒	☐	☐	☒

State Historical Themes:

Category ☐ Moveable Item ☐ Industrial Relic

Themes
- ☐ 13 Transport
- ☐ 15 Utilities
- ☐ 16 Industry
- ☐ 18 Technology
- ☐ 20 Government Administration

Statement of Significance: The item was an integral part of the Eveleigh Locomotive Workshops being associated with their operation for over 50 years. The item is an integral part of the forge assemblage. The item and its operation is easy to interpret from its existing fabric. The item exhibits a high degree of structural integrity.

Conservation Policy:

The item is to retained in its present location and be preserved as part of the forge assemblage and crane collection to which it belongs.

Policy Implementation:

All external surfaces are to be cleaned and degreased using appropriate methods. All superficial rust is to be removed or treated. All external surfaces are to be treated with an appropriate sealant such as Shell ENSIS fluid or polycrystalline wax. Conserve in situ.

Maintenance Schedule

Inspect for physical damage and deterioration every 12 months and implement repair as necessary.

Inspect all external surfaces for rust every 5 years. Where necessary, treat as recommended in the implementation section.

Interpretation:

Item Name: 10CWT Jib Crane **Item No.** 46

Name Plate: LC 498 CLASS 3 S.W.L. 10CWT

Associated Items:

Individual	☐	
Assemblage	☑	Steam Hammer 20 CWT 46, 47, 57, 66E, 71.
System	☐	
Collection	☑	Jib Cranes 30, 45, 46, 50, 55, 58, 76, 77, 80, 84, 183, 195.

Description: This very early jib crane has a cast-iron kingpost and a wrought iron or mild steel jib. It is stayed front and rear, the rear being stayed to a point close to the bottom of the king post. This crane relies for its stability on its footing. The jib crane is a superb example of late nineteenth century design.

History: The crane was located in this position prior to World War 1. It could be one of the earlier machines erected at the Workshops.

Function and Operation: The slewing is done manually by dragging the jib. The carriage is also moved forwards and backwards manually while the lifting is done through a crank attached to the cast iron hoisting drum at the base of the King Post.

Location: Bay 1 South 12-13W

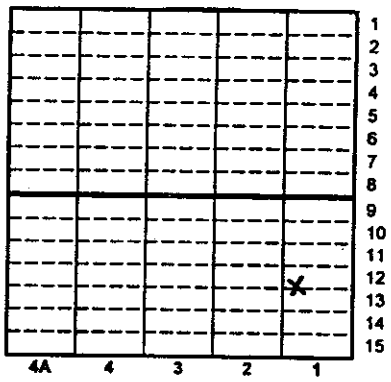
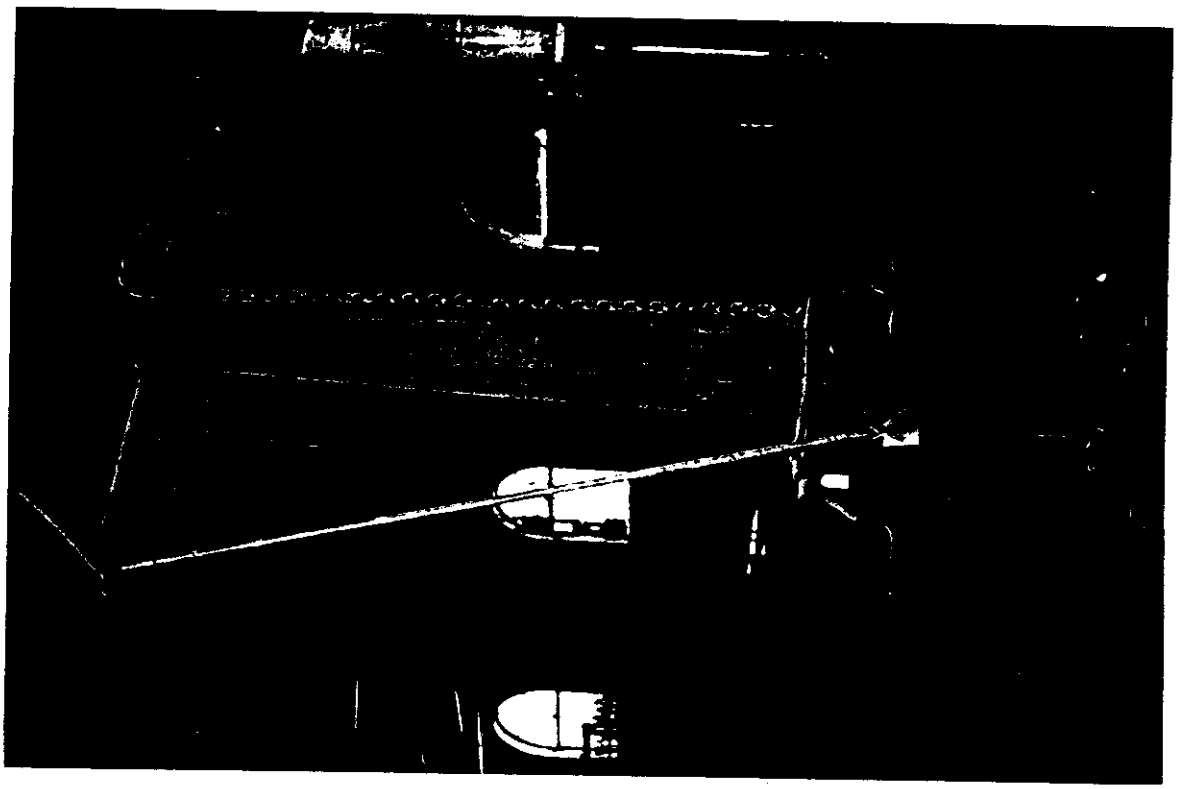


Photo: **FILM No.** 95-169-1-13 **Photographed and inspected December 1995**



Item Name: 10 CWT Jib Crane | **Item No.** 46

Condition:

The item is in good structural repair and has no obvious signs of rust.

Significance Matrix

	Historical	Aesthetic	Social	Technology/ Research Potential
Rare	☐	☐	☐	☐
Representative	☒	☐	☐	☒

State Historical Themes:

Category ☐ Moveable Item ☐ Industrial Relic

Themes
- ☐ 13 Transport
- ☐ 15 Utilities
- ☐ 16 Industry
- ☐ 18 Technology
- ☐ 20 Government Administration

Statement of Significance: The item was an integral part of the Eveleigh Locomotive Workshops being associated with their operation for over 80 years. The item is an integral part of the steam hammer assemblage. The item and its operation is easy to interpret from its existing fabric. The item exhibits a high degree of structural integrity.

Conservation Policy:

The item is to retained in its present location and be preserved as part of the forge assemblage and crane collection to which it belongs.

Policy Implementation:

All external surfaces are to be cleaned and degreased using appropriate methods. All superficial rust is to be removed or treated. All external surfaces are to be treated with an appropriate sealant such as Shell ENSIS fluid or polycrystalline wax. Conserve in situ. Grease bearings.

Maintenance Schedule

Inspect for physical damage and deterioration every 12 months and implement repair as necessary.

Grease bearings every 2 years.

Inspect all external surfaces for rust every 5 years. Where necessary, treat as recommended in the implementation section.

Interpretation:

Item Name: Oil Furnace **Item No.** 47

Name Plate:

Associated Items:

Individual	☐	
Assemblage	☑	Steam Hammer 40 CWT 47, 53, 54, 56, 66BCD, 70, 53. Steam Hammer 20 CWT 46, 47, 57, 66E, 71.
System	☐	
Collection	☑	Furnaces 47, 48, 53, 56, 59, 79, 86, 95, 97, 99, 106, 110, 111, 129, 159, 161, 198.

Description: There are two large oil furnaces in Bay 1 South. Both were for heating large billets which were to be worked under the 40CWT Steam Hammer or the 20CWT Steam Hammer. The furnaces are in excess of 2 metres wide, 3 metres long and stand about 2 metres high. Each is fitted with a heavy steel framed, fire-brick lined door which is counter-weighted by a chain to the rear. The door is lifted by a chain driven wheel. Initially, it is believed that these furnaces were fired by gas and they were later converted to oil. The furnaces are braced with universal section members and in-fill cast-iron and sheet steel sheathing. The interior is lined with fire brick. Air for the furnaces, because of the quantity required, is supplied from air compressors.

History: The history of the item is unknown but it is believed that it was installed in this position prior to World War II. However, as with many furnaces, this one may have been re-built on a number of occasions.

Function and Operation: This furnace originally supplied indirect or reflected heat through a reverberatory style roof. The oil is supplied from an elevated external reservoir. The air is now supplied from a specially introduced air compressor.

Location: Bay 1 South 11-12W

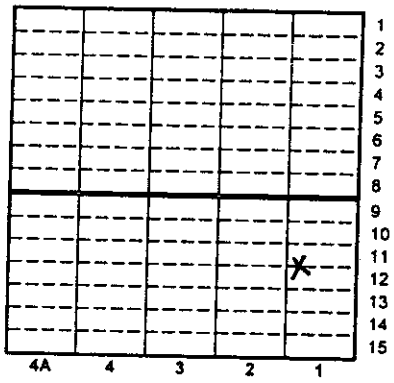
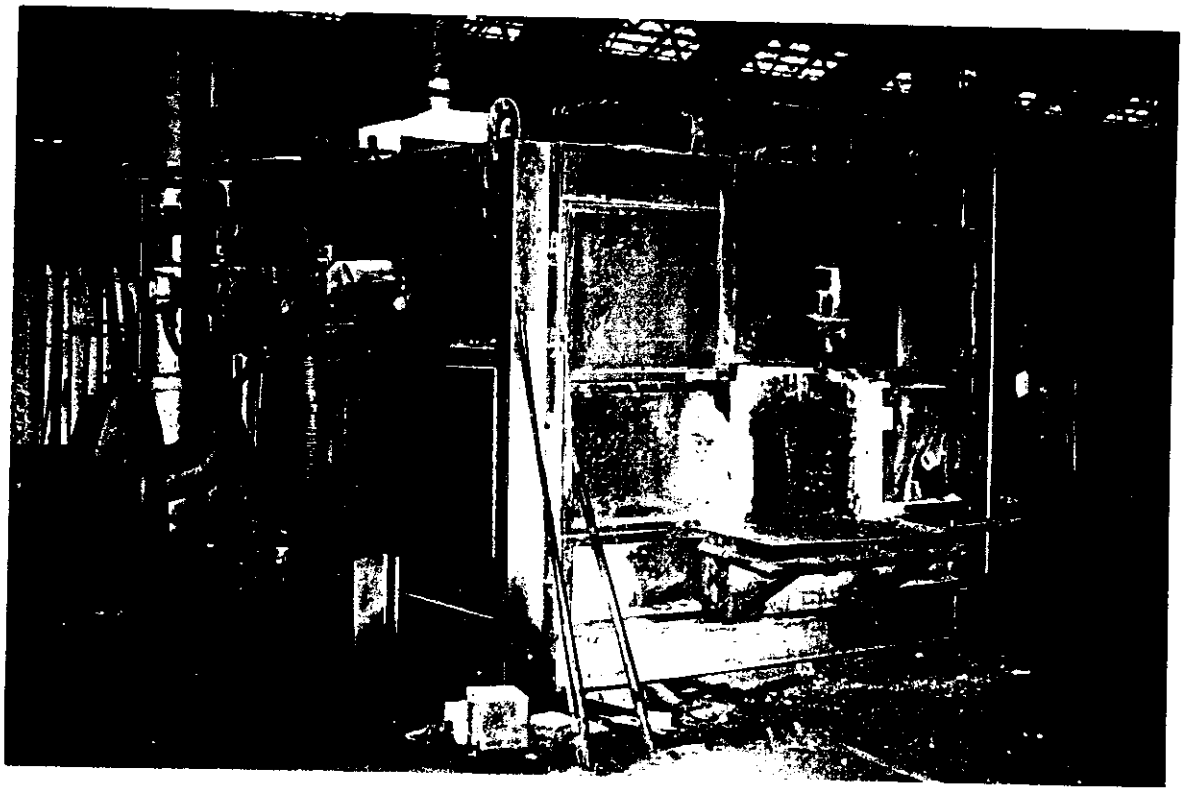


Photo: **FILM No.** 95-169-1-14 **Photographed and inspected December 1995**



Item Name: Oil Furnace | **Item No.** 47

Condition:

In general, the item appears to be in operable condition providing power sources are connected and the item is cleaned, serviced and tested.

The external surface of the item has patches of superficial rust and bare metal.

Significance Matrix

	Historical	Aesthetic	Social	Technology/ Research Potential
Rare	☐	☐	☐	☐
Repres-entative	☒	☐	☐	☒

State Historical Themes:

Category ☐ Moveable Item ☐ Industrial Relic

Themes
- ☐ 13 Transport
- ☐ 15 Utilities
- ☐ 16 Industry
- ☐ 18 Technology
- ☐ 20 Government Administration

Statement of Significance: The item was an integral part of the Eveleigh Locomotive Workshops being associated with their operation for over 40 years. The item is an integral part of the steam hammer assemblage. The item and its operation is easy to interpret from its existing fabric. The item exhibits a high degree of structural integrity.

Conservation Policy:

The item is to retained in its present location and be preserved as part of the steam hammer assemblage and furnace collection to which it belongs. The furnace is to remain operational.

Policy Implementation:

The furnace is to remain operational and therefore cannot have its surface treated. Conserve in situ.

Maintenance Schedule

Inspect for physical damage and deterioration every 12 months and implement repair as necessary.

Interpretation:

Item Name: Furnace | **Item No.** 48

Name Plate: NSW TD PP 14 S.O. -

Associated Items:

Individual ☐
Assemblage ☐
System ☐
Collection ☑ Furnaces 47, 48, 53, 56, 59, 79, 86, 95, 97, 99, 106, 110, 111, 129, 159, 161, 198.

Description: This relatively small gas furnace was used for heating items to be forged on the steam hammers or to be worked under the hydraulic press. The frame is cast iron and sheet steel lined with fire brick. The heavy front door is counter-weighted on both sides and is lifted by manipulating or by pressing on the counter-weights.

History: The history of the item is unknown but a furnace has been in this location since 1917.

Function and Operation: The furnace was operated on the direct heat principle.

Location: Bay 1 South 10-11W

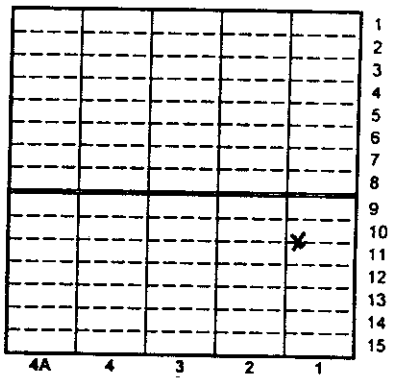
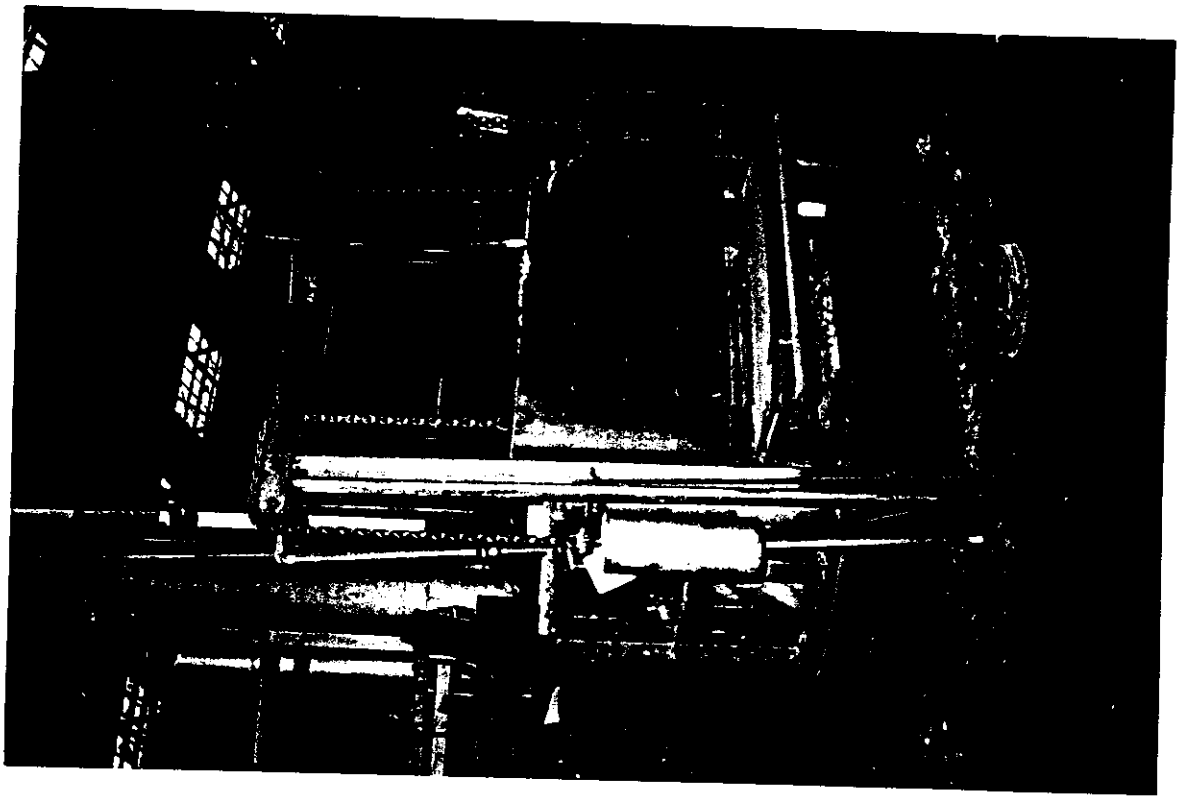


Photo: **FILM No.** 95-169-1-15 **Photographed and inspected December 1995**



Item Name: Furnace | **Item No.** 48

Condition:

In general, the item appears to be in operable condition providing power sources are connected and the item is cleaned, serviced and tested.

The external surface of the item has patches of superficial rust and bare metal.

Significance Matrix

	Historical	Aesthetic	Social	Technology/ Research Potential
Rare	☐	☐	☐	☐
Repres-entative	☒	☐	☐	☒

State Historical Themes:

Category ☐ Moveable Item ☐ Industrial Relic

Themes
- ☐ 13 Transport
- ☐ 15 Utilities
- ☐ 16 Industry
- ☐ 18 Technology
- ☐ 20 Government Administration

Statement of Significance: The item was an integral part of the Eveleigh Locomotive Workshops being associated with their operation for over 40 years. The item is an integral part of the steam hammer assemblage. The item and its operation is easy to interpret from its existing fabric. The item exhibits a high degree of structural integrity.

Conservation Policy:

The item is to be retained in its present location and be preserved as part of the hydraulic press assemblage, furnace collection and hydraulic system to which it belongs. The furnace is to remain operational.

Policy Implementation:

The furnace is to remain operational and therefore cannot have its surface treated. Conserve in situ.

Maintenance Schedule

Inspect for physical damage and deterioration every 12 months and implement repair as necessary.

Interpretation:

Item Name: 18" Hydraulic Ram Press | **Item No.** 49

Name Plate: P.T.C. NSW PF - 643 EVE S/O TANGYE BROS BIRMINGHAM
PATENT WOODBURY TYPE PRESS

Associated Items:

Individual	☐	
Assemblage	☐	
System	☑	Hydraulic 49, 52, 144, 152-154, 158, 184-187, 193, 194, 213.
Collection	☐	

Description: This small press of the Patent Woodury type was manufactured by Tangye Brothers of Birmingham in 1888. It exhibits all of the hallmarks of the extremely simple and very effective machinery of the nineteenth century that was used by the railways up until the late twentieth century. The ram press consists of a massive cast-iron footing from which there are four threaded shafts extending vertically for about 1.8 metres. A fixed head is attached to these shafts by massive nuts, one above and one below the head. The head can be raised or lowered to any height and fastened into place by the dexterous use of a massive spanner. Items to be pressed are placed on the platen and hydraulic pressure is introduced through a simple lever. The platen then raises and presses the item against the head. It is possible to use dies above and below the piece being worked.

History: The item was installed in the workshops in 1888. It is believed that it has been located in this position since that time.

Function and Operation:

Location: Bay 1 South 10-11W

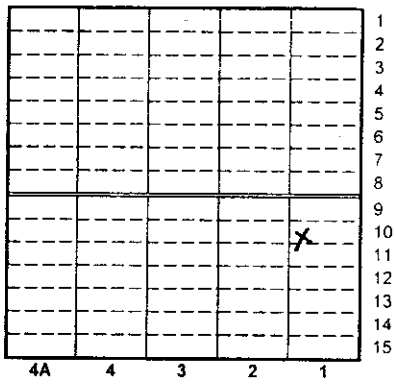
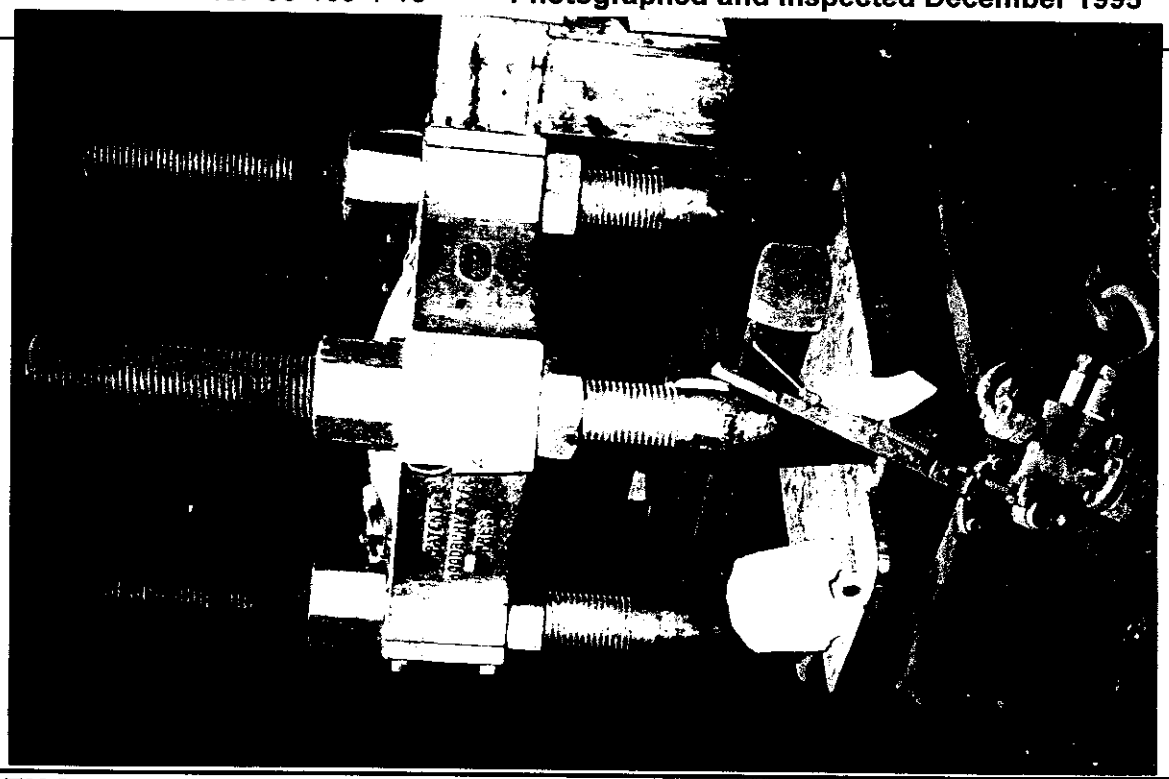


Photo: **FILM No.** 95-169-1-16 **Photographed and inspected December 1995**



Item Name: 18" Hydraulic Ram Press | **Item No.** 49

Condition:

In general, the item appears to be in operable condition providing power sources are connected and the item is cleaned, serviced and tested. In general, the item appears to be incomplete and not operable because of missing components. The condition of internal components is unknown.

Significance Matrix

	Historical	Aesthetic	Social	Technology/ Research Potential
Rare	☒	☒	☐	☒
Repres-entative	☒	☐	☐	☒

State Historical Themes:

Category ☐ Moveable Item ☐ Industrial Relic

Themes
- ☐ 13 Transport
- ☐ 15 Utilities
- ☐ 16 Industry
- ☐ 18 Technology
- ☐ 20 Government Administration

Statement of Significance: The item was an integral part of the Eveleigh Locomotive Workshops being associated with their operation for over 95 years. The item is an integral part of the hydraulic system. The item represents former manufacturing technologies now rarely evident in operating workshops. The item is impressive in size and form and exhibits a unity in its design and detail. The item will yield information on the nature of past work practices. The item and its operation is easy to interpret from its existing fabric. The item exhibits a high degree of structural integrity.

Conservation Policy:

The item is to retained in its present location and be preserved as part of the hydraulic press assemblage and hydraulic system to which it belongs.

The item is to be preserved by being cleaned, serviced and maintained according to the implementation and maintenance schedules given below.

Policy Implementation:

All external surfaces are to be cleaned and degreased using appropriate methods. All superficial rust is to be removed or treated. All external surfaces are to be treated with an appropriate sealant such as Shell ENSIS fluid or polycrystalline wax.

All pipes are to be disconnected, cleaned, dried and treated with rust inhibitor. They may then be reconnected. Conserve in situ.

Maintenance Schedule

Inspect all external surfaces for rust every 12 months. Where necessary, coat as recommended in the implementation section.

Every 5 years internal surfaces should be inspected for rust. Any rust or oxidation product must be treated suitably by being removed and coated with an inhibitor and sealant.

Interpretation:

Item Name: Jib Crane **Item No.** 50

Name Plate: N/A

Associated Items:

Individual ☐
Assemblage ☐
System ☐
Collection ☑ Jib Cranes 30, 45, 46, 50, 55, 58, 76, 77, 80, 84, 183, 195.

Description: This fairly modern jib crane has a king post which is made from angle section steel and is of a robust construction. The crane is believed to have been manufactured prior to World War II as sections of the crane are riveted and bolted together.

History: Unknown.

Function and Operation: The Jib Crane is used for moving hot material from the furnaces to the steam hammers.

Location: Bay 1 South 10W

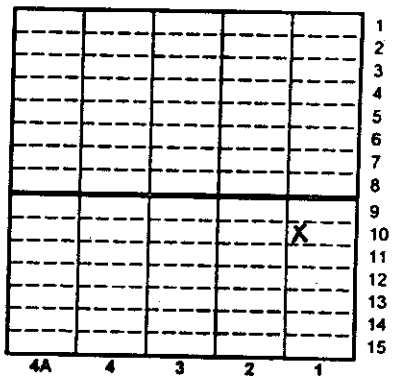
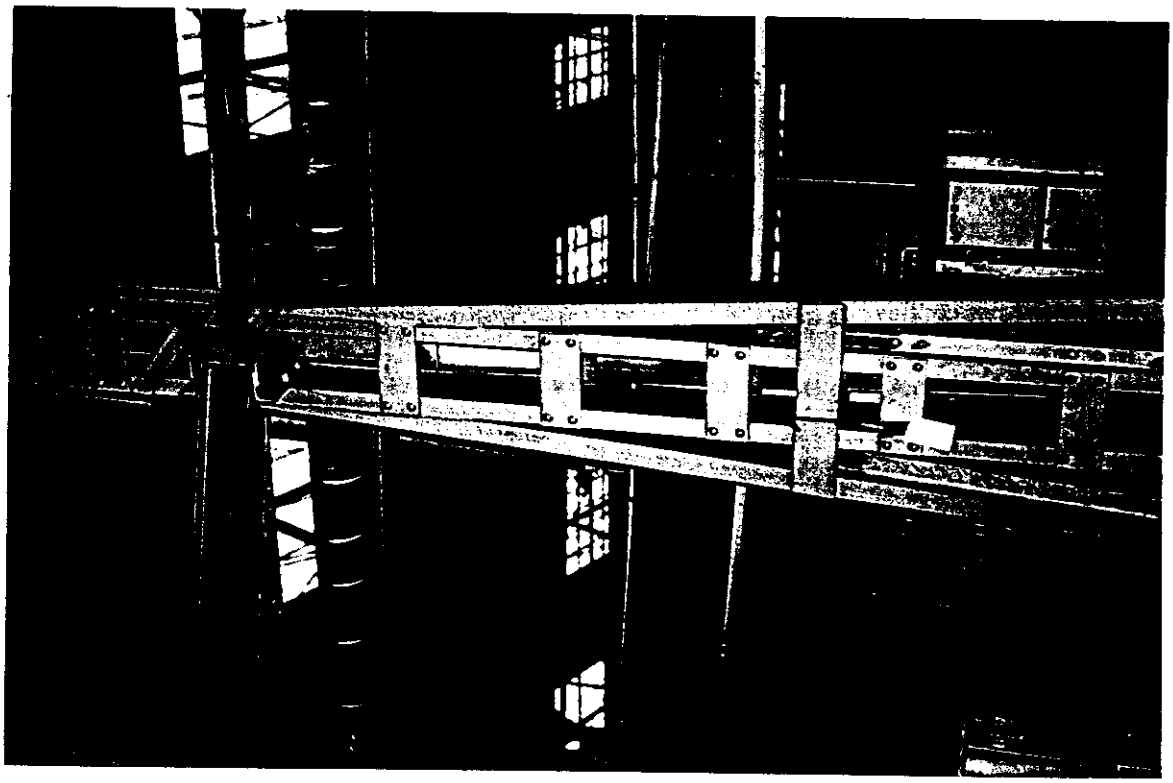


Photo: **FILM No.** 95-169-1-17 **Photographed and inspected December 1995**



Item Name: Jib Crane | **Item No.** 50

Condition:

The item is in good structural repair and has no obvious signs of rust.

Significance Matrix

	Historical	Aesthetic	Social	Technology/ Research Potential
Rare	☐	☐	☐	☐
Repres-entative	☒	☐	☐	☒

State Historical Themes:

Category ☐ Moveable Item ☐ Industrial Relic

Themes
- ☐ 13 Transport
- ☐ 15 Utilities
- ☐ 16 Industry
- ☐ 18 Technology
- ☐ 20 Government Administration

Statement of Significance: The item was an integral part of the Eveleigh Locomotive Workshops being associated with their operation for over 30 years. The item is an integral part of the jib crane collection. The item and its operation is easy to interpret from its existing fabric. The item exhibits a high degree of structural integrity.

Conservation Policy:

The item is to retained in its present location and be preserved as part of the crane collection to which it belongs.

Policy Implementation:

All external surfaces are to be cleaned and degreased using appropriate methods. All superficial rust is to be removed or treated. All external surfaces are to be treated with an appropriate sealant such as Shell ENSIS fluid or polycrystalline wax. Conserve in situ.

Maintenance Schedule

Inspect for physical damage and deterioration every 12 months and implement repair as necessary.

Inspect all external surfaces for rust every 5 years. Where necessary, treat as recommended in the implementation section.

Interpretation:

Item Name: Brett Type Impact Punch **Item No.** 51

Name Plate: NSWTD 28 883 SO RW 4227 BRETTS PATENT TYPE AD SIZE No.8 COVENTRY PATENT No. 710

Associated Items:

Individual ☐
Assemblage ☑
System ☐
Collection ☐

Description: This massive shear and punch has an extraordinarily heavy cast-iron frame in two sections which is bolted together both top and bottom. It has a centrally located fly wheel which is direct coupled to the shearing or punching ram located on each end of the shaft. The item is almost two metres wide, in excess of three metres long and almost three metres high. It was originally powered from an overhead line shaft but a stand-alone electric motor of about 2-horsepower has been attached to a specially constructed platform on the head of the machine.

History: The history of the item is unknown but it is believed to have been installed in the workshop prior to World War I. It is not known if this was the items original location.

Function and Operation: The Brett Punch operated through inertia. The massive fly wheel which would weigh several tonne is attached by a belt to a pulley driven by the electric motor through a gear box. Once the fly wheel reaches its running speed, the jaws with their dies located directly below are automatically operated. Because of the slow speed of the machine items can be placed beneath the punch and moved as the punch is raised and lowered relatively slowly.

Location: Bay 1 South 9E

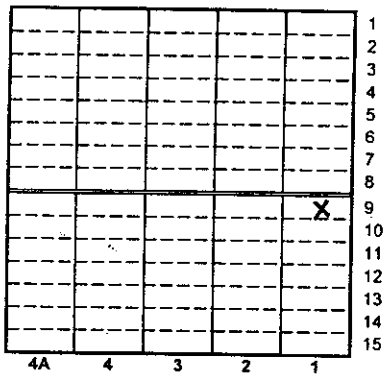
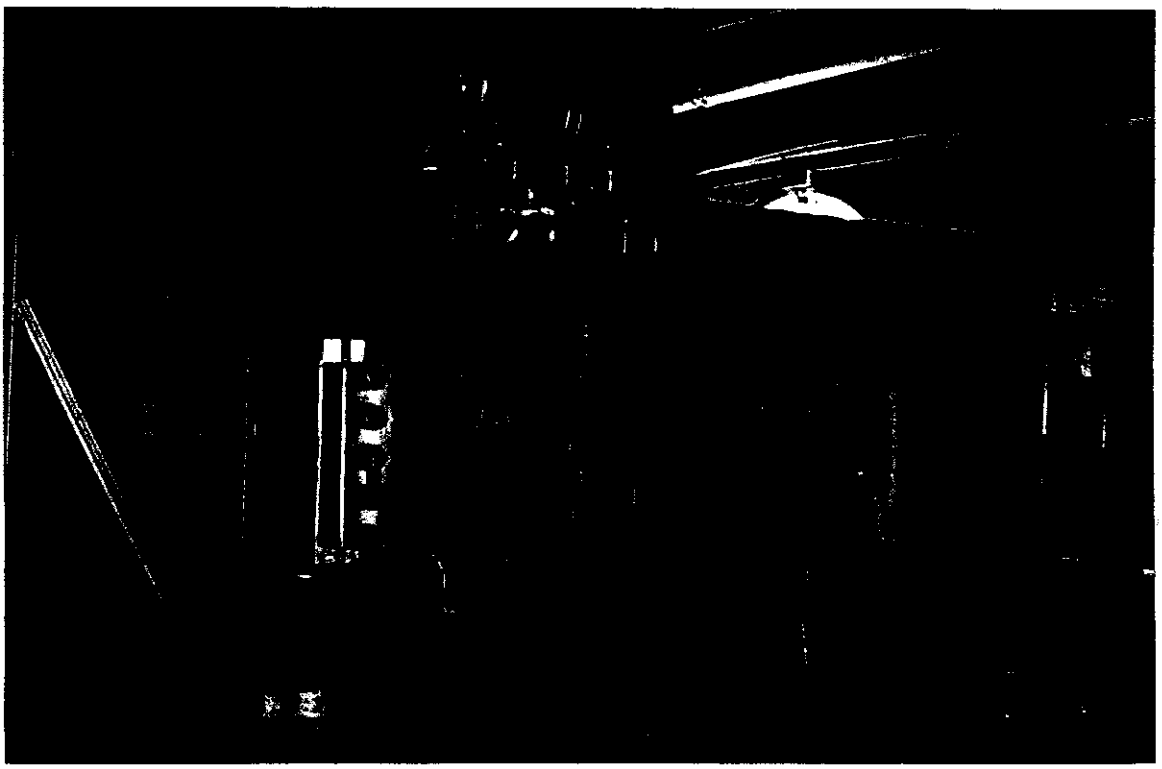


Photo: **FILM No.** 95-169-1-18 **Photographed and inspected December 1995**



Item Name: Brett Type Impact Punch Size No.8 | **Item No.** 51

Condition:

In general, the item appears to be in operable condition providing power sources are connected and the item is cleaned, serviced and tested.

The external surface of the item has patches of superficial rust and bare metal.

Significance Matrix

	Historical	Aesthetic	Social	Technology/ Research Potential
Rare	☑	☑	☐	☑
Repres-entative	☑	☐	☐	☑

State Historical Themes:

Category ☐ Moveable Item ☐ Industrial Relic

Themes
- ☐ 13 Transport
- ☐ 15 Utilities
- ☐ 16 Industry
- ☐ 18 Technology
- ☐ 20 Government Administration

Statement of Significance

The item was an integral part of the Eveleigh Locomotive Workshops being associated with their operation for over 90 years. The item is a large, rare, industrial piece exhibiting massive cast-iron construction and which had general engineering application. The item will yield information on the nature of past work practices. The item and its operation is easy to interpret from its existing fabric. The item exhibits a high degree of structural integrity.

Conservation Policy:

The item is to retained in its present location and be preserved as part of the punch assemblage. The item is to be reconnected to its power source and made operational. The item is to be preserved by being cleaned, serviced and maintained according to the implementation and maintenance schedules given below.

Policy Implementation:

All external surfaces are to be cleaned and degreased using appropriate methods. All superficial rust is to be removed or treated. All external surfaces are to be treated with an appropriate sealant such as Shell ENSIS fluid or polycrystalline wax. All operating surfaces exhibiting a normally bright finish should be suitably polished and coated with an appropriate sealant such as Shell ENSIS fluid or a polycrystalline wax. All moving parts of electric motors are to be covered to prevent ingress of dust. Conserve in situ.

Maintenance Schedule:

Inspect all external surfaces for rust every 12 months. Where necessary, coat as recommended in the implementation section. Every 5 years internal surfaces should be inspected for rust. Any rust or oxidation product must be treated suitably by being removed and coated with an inhibitor and sealant. Inspect for physical damage and deterioration every 12 months and implement repair as necessary. All operating surfaces exhibiting a normally bright finish should be suitably polished and coated with an appropriate sealant such as Shell ENSIS fluid or a polycrystalline wax.

Interpretation:

Item Name: Hydraulic Press **Item No.** 52

Name Plate: RWY No. 817

Associated Items:

Individual	☐	
Assemblage	☑	52, 53, 68C
System	☑	Hydraulic 49, 52, 144, 152-154, 158, 184-187, 193, 194, 213.
Collection	☐	

Description: This item is similar in design to the Tangye Hydraulic Press, Item No. 49. It consists of a massive cast-iron platform which supports four vertical shafts in excess of two metres long. The shafts are partially threaded which allows the massive cast-iron head to be raised or lowered. A series of dies can be fitted to the head through T-slots. The bed can also take a number of dies again through T-slots. This machine has specially cut threads which allow the head to be raised and lowered and the bolts on these heads are round rather than being faceted and are raised or lowered by means of a tommy bar rather than a spanner. The machine shows considerable refinement over the Tangye Press although its operating principle is precisely the same.

History: The machine was installed in this location in 1949. It is not known when it was manufactured or if this was the first location in which it was erected.

Function and Operation: The operation is extremely simple. Fluid under hydraulic pressure is allowed into the base of the ram and the bed is forced towards the head of the machine, compressing hot metal either between platons or in a die.

Location: Bay 1 South 9E

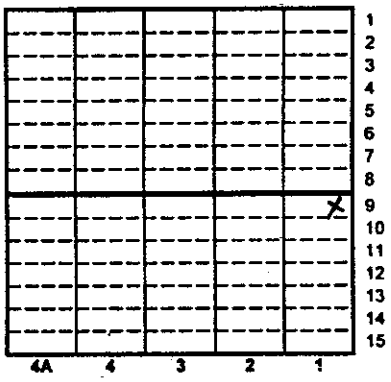
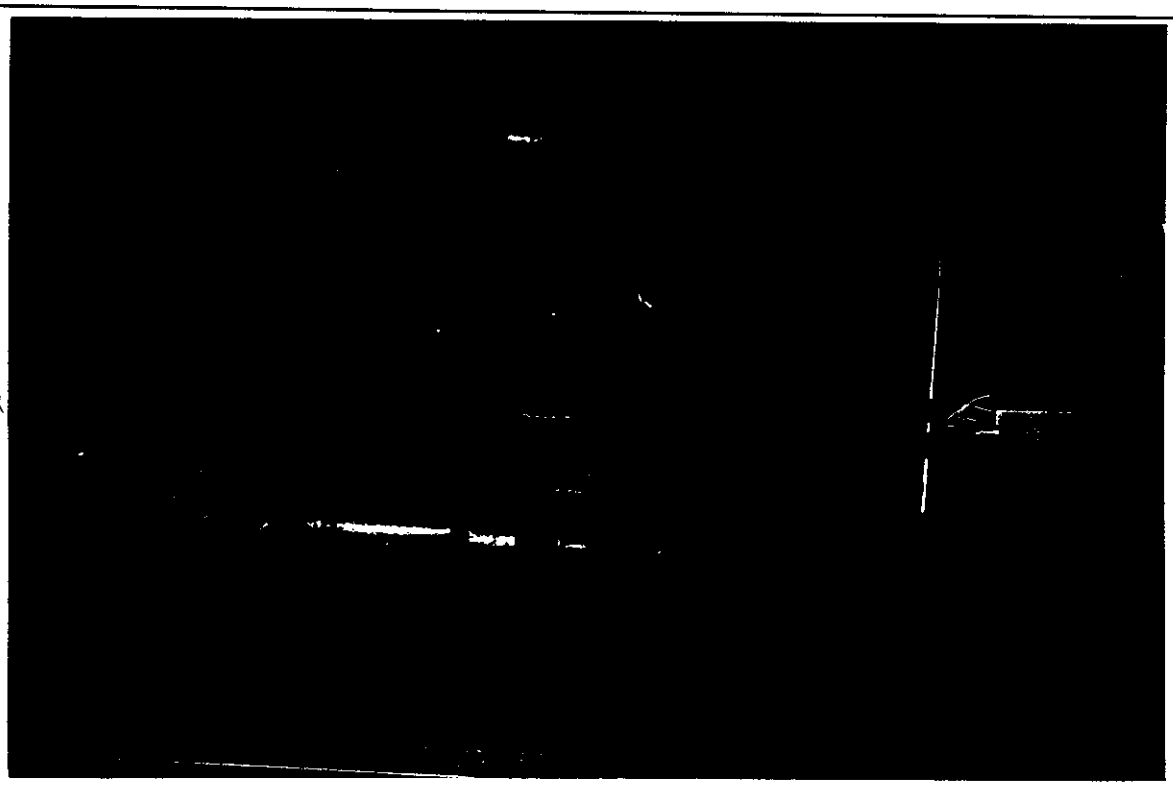


Photo: **FILM No.** 95-169-1-19 **Photographed and inspected December 1995**



Item Name: Hydraulic Press RWY No. 817 | **Item No.** 52

Condition:

In general, the item appears to be in operable condition providing power sources are connected and the item is cleaned, serviced and tested. The condition of internal components is unknown.

Significance Matrix

	Historical	Aesthetic	Social	Technology/ Research Potential
Rare	☒	☒	☐	☒
Repres-entative	☒	☐	☐	☒

State Historical Themes:

Category ☐ Moveable Item ☐ Industrial Relic

Themes
- ☐ 13 Transport
- ☐ 15 Utilities
- ☐ 16 Industry
- ☐ 18 Technology
- ☐ 20 Government Administration

Statement of Significance: The item was an integral part of the Eveleigh Locomotive Workshops being associated with their operation for over 40 years. The item is an integral part of the hydraulic system. The item represents former manufacturing technologies now rarely evident in operating workshops. The item is impressive in size and form and exhibits a unity in its design and detail. The item will yield information on the nature of past work practices. The item and its operation is easy to interpret from its existing fabric and it exhibits a high degree of structural integrity.

Conservation Policy:

The item is to retained in its present location and be preserved as part of the hydraulic press assemblage and hydraulic system to which it belongs.

The item is to be preserved by being cleaned, serviced and maintained according to the implementation and maintenance schedules given below.

Policy Implementation:

The machine is to be stripped, all cylinders cleaned and dried, all bearings and glands repacked, all internal bare metal surfaces are to be dried and greased to prevent rust.

All external surfaces are to be cleaned and degreased using appropriate methods. All superficial rust is to be removed or treated. All external surfaces are to be treated with an appropriate sealant such as Shell ENSIS fluid or polycrystalline wax.

All pipes are to be disconnected, cleaned, dried and treated with rust inhibitor. They may then be reconnected. Conserve in situ.

Maintenance Schedule

Inspect all external surfaces for rust every 12 months. Where necessary, surface treat as recommended in the implementation section.

Every five years internal surfaces should be inspected for rust. Any rust or oxidation product must be treated suitably by being removed and coated with an inhibitor and sealant.

Interpretation:

Item Name: Furnace FR 13 **Item No.** 53

Name Plate: NSWTD FR13

Associated Items:

Individual	☐	
Assemblage	☑	
System	☐	
Collection	☑	Furnaces 47, 48, 53, 56, 59, 79, 86, 95, 97, 99, 106, 110, 111, 129, 159, 161, 198.

Description: This small reverberatory type furnace was used for heating material for the Hydraulic Press. It is gas-fired about 1.2 metres deep, stands about 1.6 metres high and is 1.2 metres wide. It is composed of a cast iron and sheet steel or plate frame lined with fire brick. Double sided rail has been attached to the front of the machine from which the front door has been suspended. The door was originally counterweighted and opened by pressing the counterweights suspended from the twin head rail portal.

History: The history of the item is unknown.

Function and Operation: Materials were simply placed in the furnace and heated by the introduction of gas and air.

Location: Bay 1 South 9-10E

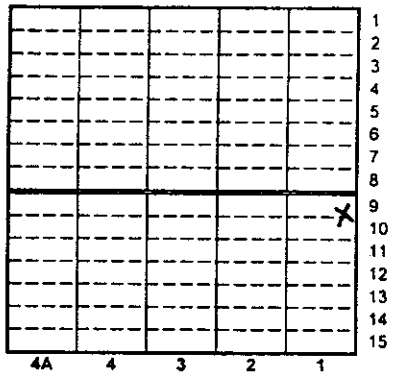


Photo: **FILM No.** 95-169-1-20 **Photographed and inspected December 1995**

Item Name: Furnace FR 13 **Item No.** 53

Condition: In general, the item appears to be in operable condition providing power sources are connected and the item is cleaned, serviced and tested. The item will need some repair. The item exhibits heavy rust in places. The condition of the power source is unknown and has probably been disconnected.

Significance Matrix

	Historical	Aesthetic	Social	Technology/ Research Potential
Rare	☐	☐	☐	☐
Repres-entative	☒	☐	☐	☒

State Historical Themes:

Category ☐ Moveable Item ☐ Industrial Relic

Themes
- ☐ 13 Transport
- ☐ 15 Utilities
- ☐ 16 Industry
- ☐ 18 Technology
- ☐ 20 Government Administration

Statement of Significance

The item was an integral part of the Eveleigh Locomotive Workshops being associated with their operation for over 30 years. The item is an integral part of the hydraulic press assemblage.

Conservation Policy:

The item is to retained in its present location and be preserved and retained as part of the hydraulic press assemblage and furnace collection system to which it belongs.

The item is to be preserved by being cleaned, serviced and maintained according to the implementation and maintenance schedules given below.

Policy Implementation:

All external surfaces are to be cleaned and degreased using appropriate methods. All superficial rust is to be removed or treated. All external surfaces are to be treated with an appropriate sealant such as Shell ENSIS fluid or polycrystalline wax.

All pipes are to be disconnected, cleaned, dried and treated with rust inhibitor. They may then be reconnected. Conserve in situ.

Maintenance Schedule

Inspect all internal external surfaces for rust every 2 years. Where necessary, treat as recommended in the implementation section.

Interpretation:

Item Name: 40CWT Arch Steam Hammer **Item No.** 54

Name Plate: NSW GR No. 664 Class HS 4867 (on machine)

Associated Items:

Individual	☐	
Assemblage	☑	Steam Hammer 40 CWT 47, 53, 54, 56, 66BCD, 70, 53
System	☑	Steam 1-4, 28, 29, 31, 32, 54, 57, 188-191
Collection	☑	Steam Hammer 28, 29, 31, 32, 54, 57

Description: This massive, arch framed steam hammer is one of the oldest pieces in the workshop. It is over 3 metres long, a metre wide and stands in excess of 4 metres high. The massive frame supports the steam chest and the weighs or slides for the hammer itself. The hammer is double-acting and it is used predominantly for forging using only flat dies and anvils. The machine could only be used by specialists/blacksmiths/forgers.

History: The Arch Hammer was installed in 1887 as part of the original steam hammer shop. It has remained in this location ever since. It is shown in some of the earliest interior photographs of the workshops. The steam hammer was the largest ever to be erected at Eveleigh and was continuously used for 100 years. It is believed that almost all of the hammer remains, as originally installed, although some oiling mechanisms and some modification may have taken place to the steam chest.

Function and Operation: The steam hammer was operated by a foreman striker, or blacksmith through the use of a single lever. The lever determined the length of the blow and hence the weight and also the frequency of the blow. The operation lever is attached directly to linkages at the steam chest. Material which was being forged was held in large balanced tongs similar to the tongs used for the Davey Press. These tongs were placed through a chain loop attached to a carriage on the Jib Crane.

Location: Bay 1 South 10-11

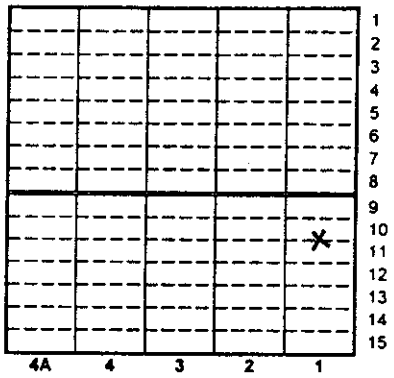
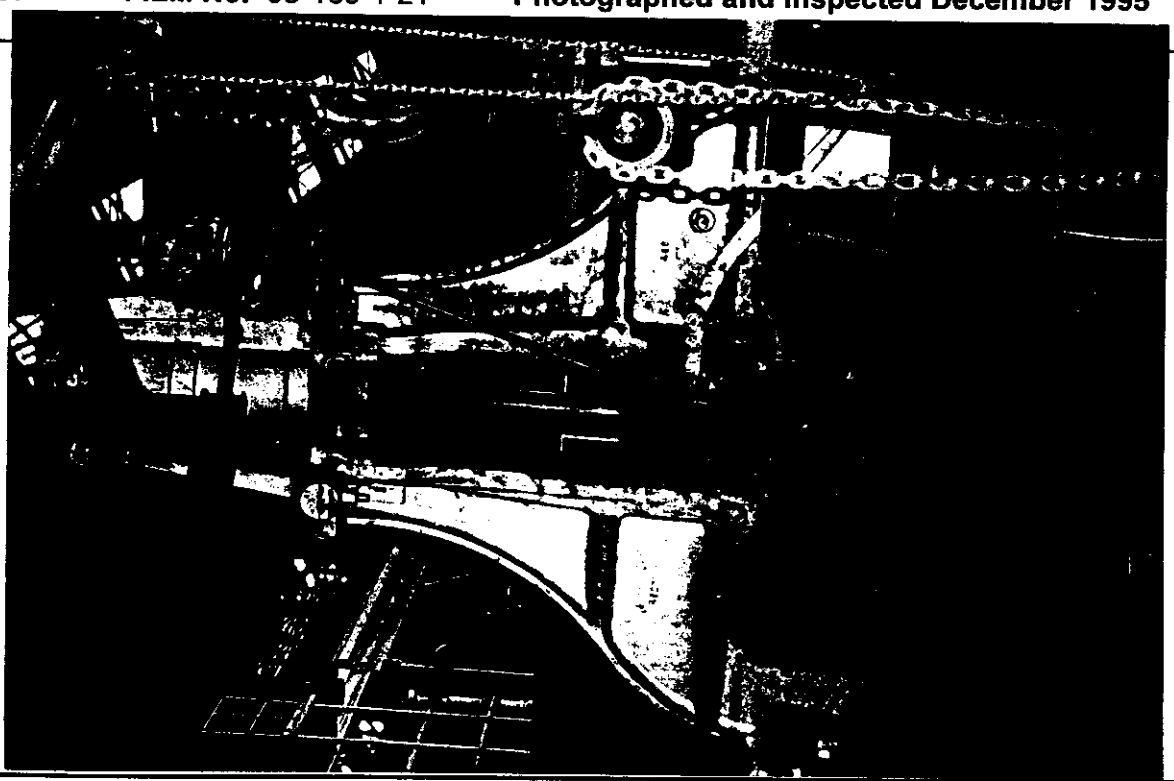


Photo: **FILM No.** 95-169-1-21 **Photographed and inspected December 1995**



Item Name: 40 CWT Arch Steam Hammer No. 4867 Date of Man.1887, RWT No. HS 664 | **Item No.** 54

Condition:

In general, the item appears to be in operable condition providing power sources are connected and the item is cleaned, serviced and tested.

The external surface of the item has patches of superficial rust and bare metal.

Significance Matrix

	Historical	Aesthetic	Social	Technology/ Research Potential
Rare	☒	☒	☐	☒
Repres-entative	☒	☐	☐	☒

State Historical Themes:

Category ☐ Moveable Item ☐ Industrial Relic

Themes
- ☐ 13 Transport
- ☐ 15 Utilities
- ☐ 16 Industry
- ☐ 18 Technology
- ☐ 20 Government Administration

Statement of Significance: The item was an integral part of the Eveleigh Locomotive Workshops being associated with their operation for over 100 years. The item is an integral part of the steam system. The item is a large, rare, industrial piece exhibiting massive cast-iron construction and which had general engineering application. The item represents former manufacturing technologies now rarely evident in operating workshops. The item is impressive in size and form and exhibits a unity in its design and detail. The item has research and education potential for developing an understanding of early engineering practice. The item will yield information on the nature of past work practices. The item and its operation is easy to interpret from its existing fabric. The item exhibits a high degree of structural integrity.

Conservation Policy: The item is to retained in its present location and be preserved as part of the arch hammer assemblage, steam hammer collection, and steam system to which it belongs.

The item is to be preserved by being cleaned, serviced and maintained according to the implementation and maintenance schedules given below.

Policy Implementation: The machine is to be stripped, all cylinders cleaned and dried, all bearings and glands repacked, all internal bare metal surfaces are to be dried and greased to prevent rust. All external surfaces are to be cleaned and degreased using appropriate methods. All superficial rust is to be removed or treated. All external surfaces are to be treated with an appropriate sealant such as Shell ENSIS fluid or polycrystalline wax. All pipes are to be disconnected, cleaned, dried and treated with rust inhibitor. They may then be reconnected. All operating surfaces exhibiting a normally bright finish should be suitably polished and coated with an appropriate sealant such as Shell ENSIS fluid or a polycrystalline wax. Conserve in situ.

Maintenance Schedule: Inspect all external surfaces for rust every 12 months. Where necessary, coat as recommended in the implementation section. Every 2 years internal surfaces should be inspected for rust. Any rust or oxidation product must be treated suitably by being removed and coated with an inhibitor and sealant.

All operating surfaces exhibiting a normally bright finish should be suitably polished and coated with an appropriate sealant such as Shell ENSIS fluid or a polycrystalline wax.

Interpretation:

Item Name: 10CWT Jib Crane **Item No.** 55

Name Plate: LC497 Class 3 S.W.L. 10 CWT

Associated Items:

Individual	☐	
Assemblage	☑	Steam Hammer 20 CWT 46, 47, 57, 66E, 71
System	☐	
Collection	☑	Jib Cranes 30, 45, 46, 50, 55, 58, 76, 77, 80, 84, 183, 195

Description: This very early jib crane has a cast-iron kingpost and a wrought iron or mild steel jib. It is stayed front and rear, the rear being stayed to a point close to the bottom of the king post. This crane relies for its stability on its footing. The jib crane is a superb example of late nineteenth century design.

History: The crane was located in this position prior to World War 1. It could be one of the earlier machines erected at the Workshops.

Function and Operation: The slewing is done manually by dragging the jib. The carriage is also moved forwards and backwards manually while the lifting is done through a crank attached to the cast iron hoisting drum at the base of the King Post.

Location: Bay 1 South 10E

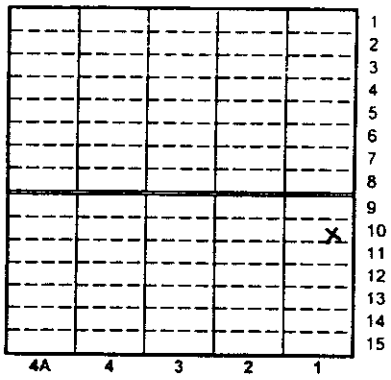


Photo: **FILM No.** 95-169-1-23 **Photographed and inspected December 1995**

Item Name: 10 CWT Jib Crane | **Item No.** 55

Condition:

The item is in good structural repair and has no obvious signs of rust.

Significance Matrix

	Historical	Aesthetic	Social	Technology/ Research Potential
Rare	☐	☐	☐	☐
Repres-entative	☒	☐	☐	☒

State Historical Themes:

Category ☐ Moveable Item ☐ Industrial Relic

Themes
- ☐ 13 Transport
- ☐ 15 Utilities
- ☐ 16 Industry
- ☐ 18 Technology
- ☐ 20 Government Administration

Statement of Significance: The item was an integral part of the Eveleigh Locomotive Workshops being associated with their operation for over 90 years. The item is an integral part of the forge assemblage. The item and its operation is easy to interpret from its existing fabric. The item exhibits a high degree of structural integrity.

Conservation Policy:

The item is to be retained in its present location and preserved as part of the forge assemblage and crane collection to which it belongs. The item should remain operational.

Policy Implementation:

All external surfaces are to be cleaned and degreased using appropriate methods. All superficial rust is to be removed or treated. All external surfaces are to be treated with an appropriate sealant such as Shell ENSIS fluid or polycrystalline wax. Conserve in situ. Grease bearings.

Maintenance Schedule

Inspect for physical damage and deterioration every 12 months and implement repair as necessary.

Grease bearings every 2 years.

Inspect all external surfaces for rust every 5 years. Where necessary, treat as recommended in the implementation section.

Interpretation:

Item Name: Oil Furnace Large | **Item No.** 56

Name Plate: PTC NSW FR 159 EVE S/O

Associated Items:

Individual	☐	
Assemblage	☑	Steam Hammer 40 CWT 47, 53, 54, 56, 66BCD, 70, 53
System	☐	
Collection	☑	Furnaces 47, 48, 53, 56, 59, 79, 86, 95, 97, 99, 106, 110, 111, 129, 159, 161, 198

Description: There are two large oil furnaces in Bay 1 South. Both were for heating large billets which were to be worked under the 4000 weight Steam Hammer or the 2000 weight Steam Hammer. The furnaces are in excess of 2 metres wide, 3 metres long and stand about 2 metres high. Each is fitted with a heavy steel framed, fire-brick lined door which is counter-weighted by a chain to the rear. The door is lifted by a chain driven wheel. Initially it is believed that these furnaces were fired by gas and they were later converted to oil fire. The furnaces are braced with universal section members and in-fill cast-iron and sheet steel sheathing. The interior is lined with fire brick. Air for the furnaces, because of the quantity required is supplied from air compressors.

History: The history of the item is unknown but it is believed that it was installed in this position prior to World War II. However, as with many furnaces, this one may have been re-built on a number of occasions.

Function and Operation: This furnace originally supplied indirect or reflected heat through a reverberatory style roof. The oil is supplied from an elevated external reservoir. The air is now supplied from a specially introduced air compressor.

Location: Bay 1 South 11-12E

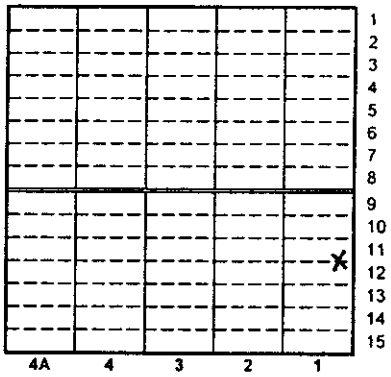
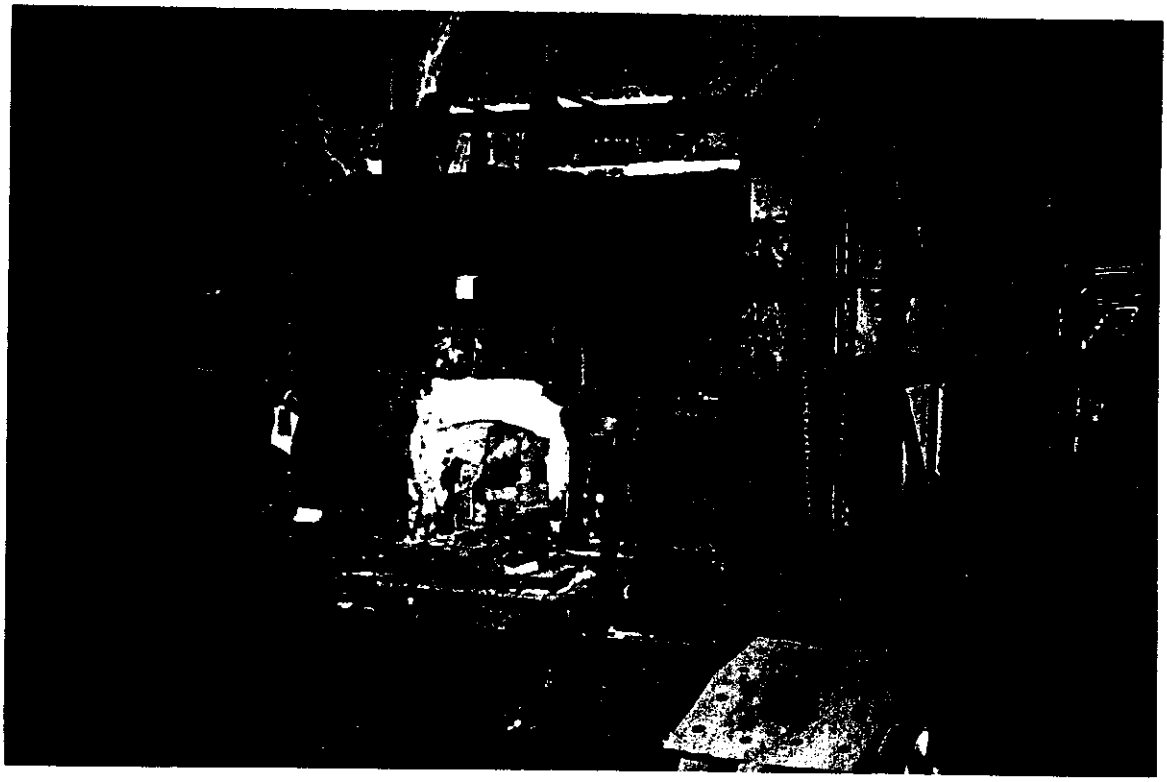


Photo: **FILM No.** 95-169-1-23 **Photographed and inspected December 1995**



Item Name: Oil Furnace Large | **Item No.** 56

Condition:

In general, the item appears to be in operable condition providing power sources are connected and the item is cleaned, serviced and tested.

The external surface of the item has patches of superficial rust and bare metal.

Significance Matrix

	Historical	Aesthetic	Social	Technology/ Research Potential
Rare	☐	☐	☐	☐
Repres-entative	☒	☐	☐	☒

State Historical Themes:

Category ☐ Moveable Item ☐ Industrial Relic

Themes
- ☐ 13 Transport
- ☐ 15 Utilities
- ☐ 16 Industry
- ☐ 18 Technology
- ☐ 20 Government Administration

Statement of Significance: The item was an integral part of the Eveleigh Locomotive Workshops being associated with their operation for over 40 years. The item is an integral part of the steam hammer assemblage. The item and its operation is easy to interpret from its existing fabric. The item exhibits a high degree of structural integrity.

Conservation Policy:

The item is to be retained in its present location and be preserved as part of the steam hammer assemblage and furnace collection and hydraulic system to which it belongs. The furnace is to remain operational.

Policy Implementation:

The furnace is to remain operational and therefore cannot have its surface treated. Conserve in situ.

Maintenance Schedule

Inspect for physical damage and deterioration every 12 months and implement repair as necessary.

Interpretation:

Item Name: 20CWT Steam Hammer **Item No.** 57

Name Plate: NSWGR 665 Class HS Davis & Primrose. Leith. 20 CWT HAMMER

Associated Items:

Individual	☐	
Assemblage	☑	Steam Hammer 20 CWT 46, 47, 57, 66E, 71
System	☑	Steam 1-4, 28, 29, 31, 32, 54, 57, 188-191
Collection	☑	Steam Hammer 28, 29, 31, 32, 54, 57
Operational Groups	☑	Steam Hammer Shop. All items in Bay 2N except 38

Description: This steam hammer is the second largest to exist in the workshops. It consists of a heavy cast-iron bed and massive curved cast-iron frame which supports the steam chest. The shaft is guided by glands which are attached immediately below the steam head. Steam is admitted on both the up and the down stroke.

History: The item was introduced to the workshops in the 1890s, it is believed, in this position. It has remained here since that time and was in continuous operation for almost 100 years.

Function and Operation: The steam hammer was operated by a blacksmith or foreman blacksmith. The material was held in balanced tongs, supported by one of the Jib Cranes. The length, and hence the weight, of the blow was determined by the amount of arc through which the lever was pushed and the frequency of the blow was determined by the manipulation of the lever. The hammer could be used with a number of dyes, fullers or swages which were attached to the dovetail mount of the hammerhead. Similarly, a number of dies, fullers or swages could be locked in position in the anvil. It should be noted that the anvil and the steam hammer were supported by two completely different sets of foundations.

Location: Bay 1 South 12-13

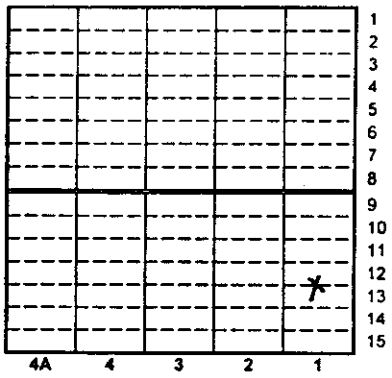
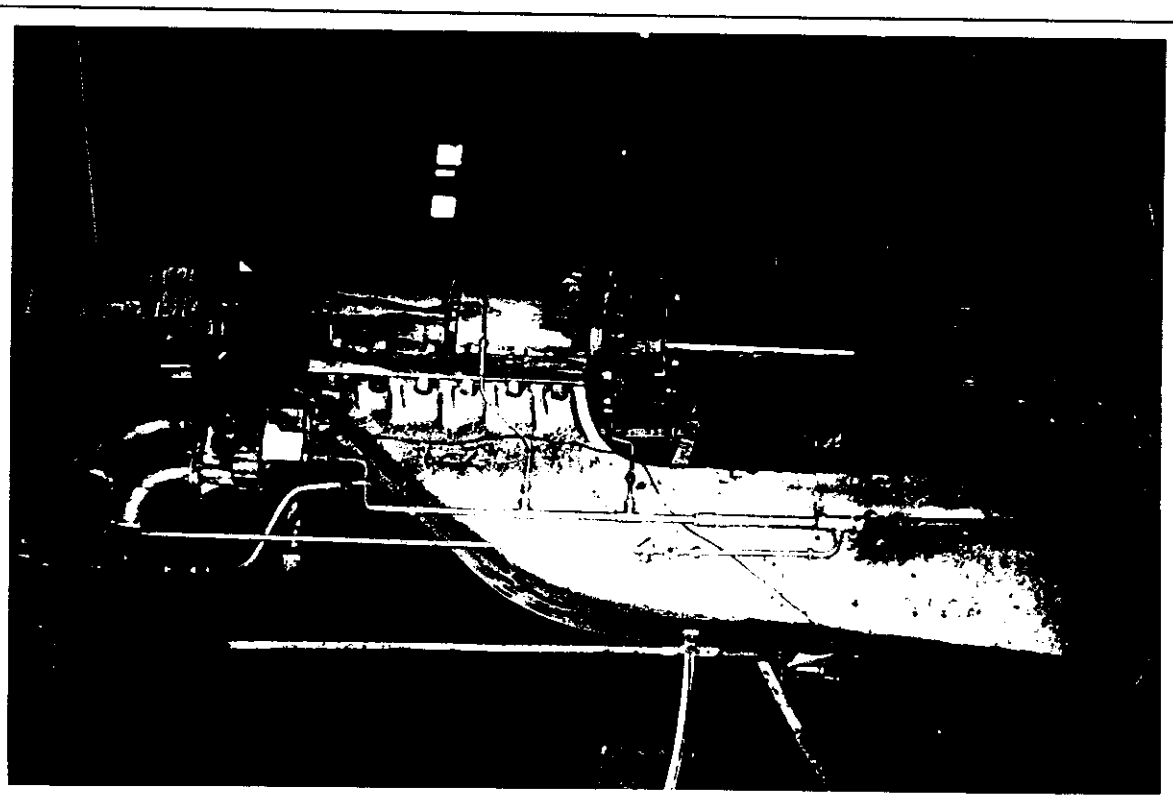


Photo: **FILM No.** 95-169-1-24 **Photographed and inspected December 1995**



Item Name: 20 CWT Steam Hammer | **Item No.** 57

Condition:

In general, the item appears to be in operable condition providing power sources are connected and the item is cleaned, serviced and tested. The external surface of the item has patches of superficial rust and bare metal.

Significance Matrix

	Historical	Aesthetic	Social	Technology/ Research Potential
Rare	☒	☒	☐	☒
Repres-entative	☒	☐	☐	☒

State Historical Themes:

Category ☐ Moveable Item ☐ Industrial Relic

Themes
- ☐ 13 Transport
- ☐ 15 Utilities
- ☐ 16 Industry
- ☐ 18 Technology
- ☐ 20 Government Administration

Statement of Significance

The item was an integral part of the Eveleigh Locomotive Workshops being associated with their operation for over 90 years. The item is an integral part of the large steam system. The item is a large, rare, industrial piece exhibiting massive cast-iron construction and which had general engineering application. The item represents former manufacturing technologies now rarely evident in operating workshops. The item is impressive in size and form and exhibits a unity in its design and detail. The item has research and education potential for developing an understanding of early engineering practice. The item and its operation is easy to interpret from its existing fabric. The item exhibits a high degree of structural integrity.

Conservation Policy:

The item is to retained in its present location and be preserved as part of the 20CWT steam hammer assemblage, the steam hammer collection and the steam system to which it belongs.

Policy Implementation:

The machine is to be stripped, all cylinders cleaned and dried, all bearings and glands repacked, all internal bare metal surfaces are to be dried and greased to prevent rust. All external surfaces are to be cleaned and degreased using appropriate methods. All superficial rust is to be removed or treated. All external surfaces are to be treated with an appropriate sealant such as Shell ENSIS fluid or polycrystalline wax. All pipes are to be disconnected, cleaned, dried and treated with rust inhibitor. They may then be reconnected. All operating surfaces exhibiting a normally bright finish should be suitably polished and coated with an appropriate sealant such as Shell ENSIS fluid or a polycrystalline wax. Conserve in situ.

Maintenance Schedule

Inspect all external surfaces for rust every 12 months. Where necessary, coat as recommended in the implementation section. Every 5 years internal surfaces should be inspected for rust. Any rust or oxidation product must be treated suitably by being removed and coated with an inhibitor and sealant.

Interpretation:

Item Name: 7 CWT Crane (Braced off Column) **Item No.** 58

Name Plate: L.C. -500 S.W.L. 7 CWT. CLASS 3

Associated Items:

Individual	☐	
Assemblage	☑	Electropneumatic 7CWT 44, 45, 58-60, 62AB, 66F, 66A
System	☐	
Collection	☑	Jib Cranes 30, 45, 46, 50, 55, 58, 76, 77, 80, 84, 183, 195

Description: This small crane consists of a kingpost made of C-Section steel and a Jib of universal section. The jib is faced both front and back and the kingpost is faced from the walls.

History: The history of the item is unknown but it is believed to have been erected in the workshop after World War II.

Function and Operation: The Jib Crane was operated manually and was used for taking heated items from the furnaces to the 2000 weight steam hammer or the electro-pneumatic.

Location: Bay 1 South 14E

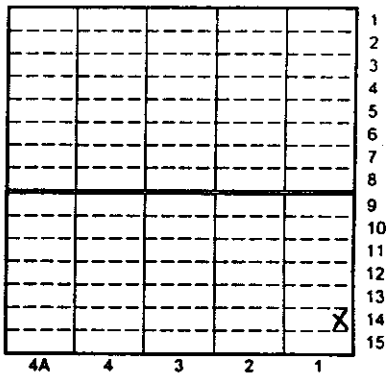
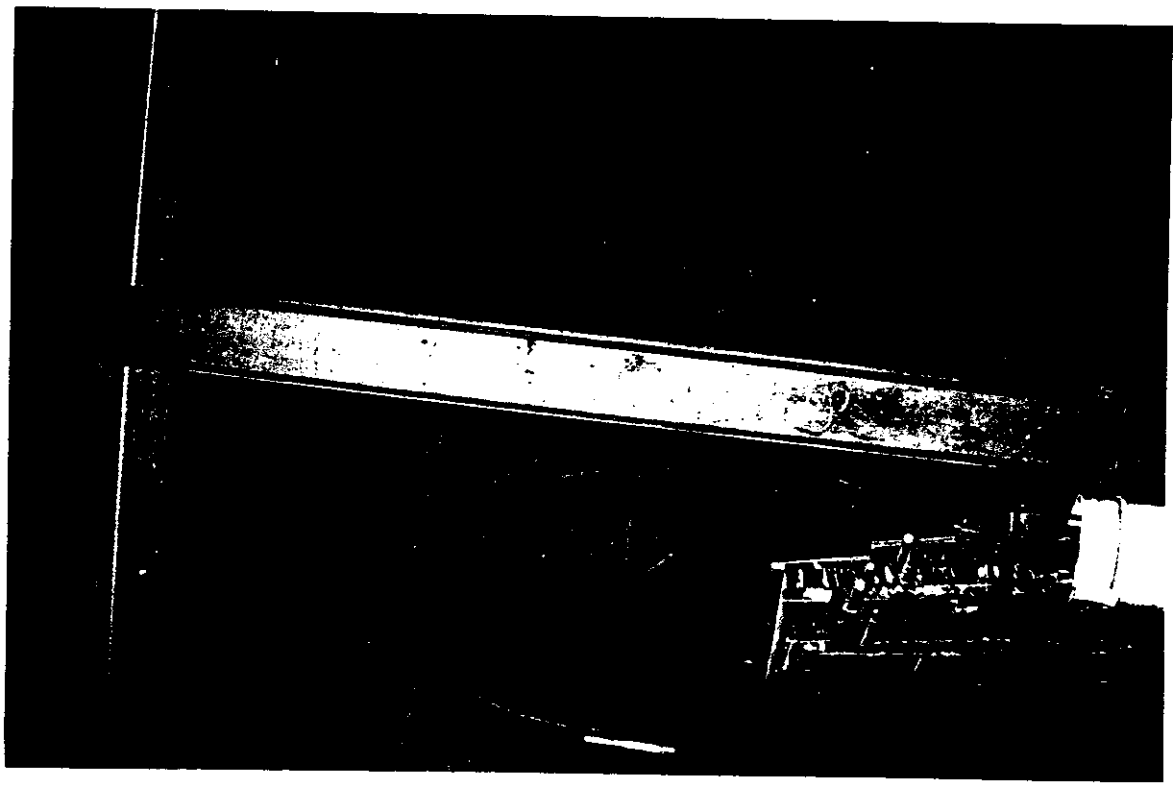


Photo: **FILM No.** 95-169-1-25 **Photographed and inspected December 1995**



Item Name: 7 CWT Crane (Braced Off Column) | **Item No.** 58

Condition:

The item is in good structural repair and has no obvious signs of rust.

Significance Matrix

	Historical	Aesthetic	Social	Technology/ Research Potential
Rare	☐	☐	☐	☐
Repres-entative	☒	☐	☐	☒

State Historical Themes:

Category ☐ Moveable Item ☐ Industrial Relic

Themes
- ☐ 13 Transport
- ☐ 15 Utilities
- ☐ 16 Industry
- ☐ 18 Technology
- ☐ 20 Government Administration

Statement of Significance: The item was an integral part of the Eveleigh Locomotive Workshops being associated with their operation for over 30 years. The item is an integral part of the forge assemblage. The item and its operation is easy to interpret from its existing fabric. The item exhibits a high degree of structural integrity.

Conservation Policy:

The item is to retained in its present location and be preserved as part of the forge assemblage and crane collection to which it belongs.

Policy Implementation:

All external surfaces are to be cleaned and degreased using appropriate methods. All superficial rust is to be removed or treated. All external surfaces are to be treated with an appropriate sealant such as Shell ENSIS fluid or polycrystalline wax. Grease bearings. Conserve in situ.

Maintenance Schedule

Inspect for physical damage and deterioration every 12 months and implement repair as necessary.

Grease bearings every 12 months.

Inspect all external surfaces for rust every 5 years. Where necessary, treat as recommended in the implementation section.

Interpretation:

Item Name: Blacksmiths Forge | **Item No.** 59

Name Plate: FB9

Associated Items:

Individual	☐	
Assemblage	☑	Electropneumatic 7CWT 44, 45, 58-60, 62AB, 66F, 66A
System	☐	
Collection	☑	Furnaces 47, 48, 53, 56, 59, 79, 86, 95, 97, 99, 106, 110, 111, 129, 159, 161, 198

Description: This forge is similar to item Number 44. It is no longer in use and shows sign of advanced deterioration. The forge, like item 49, has a sheet metal and plate cowling rather than the typical cast-iron railway cowling and its water cooled tuyere has been removed.

History: The history of the item is unknown.

Function and Operation: The item is no longer operational but it does indicate the number of forges which were in use in this part of the workshop.

Location: Bay 1 South 14E

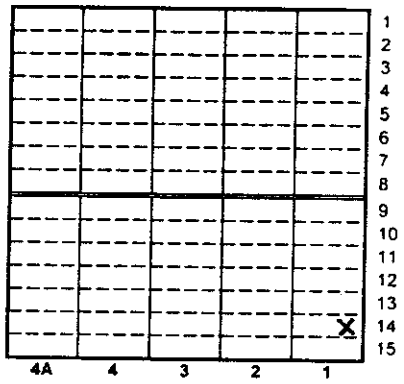
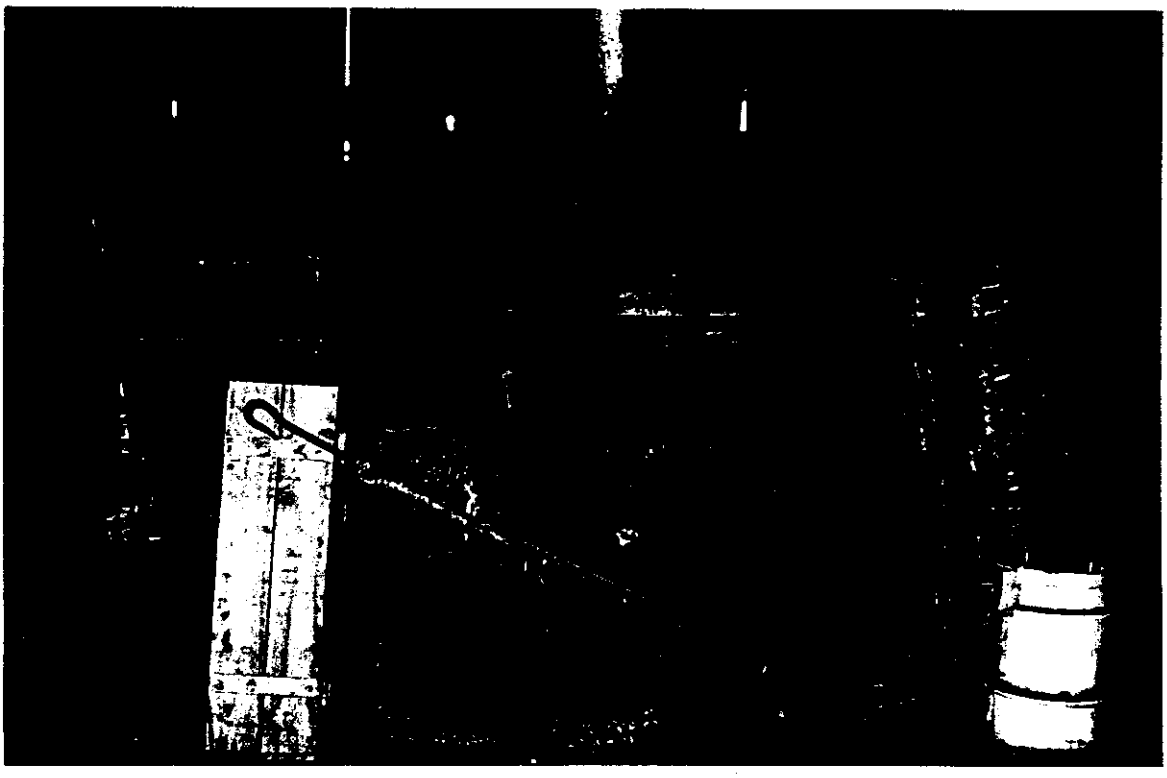


Photo: **FILM No.** 95-169-1-26 **Photographed and inspected December 1995**



Item Name: Forge | **Item No.** 59

Condition:

The item is in good structural repair and has no obvious signs of rust.

Significance Matrix

	Historical	Aesthetic	Social	Technology/ Research Potential
Rare	☐	☐	☐	☐
Representative	☒	☐	☐	☒

State Historical Themes:

Category ☐ Moveable Item ☐ Industrial Relic

Themes
- ☐ 13 Transport
- ☐ 15 Utilities
- ☐ 16 Industry
- ☐ 18 Technology
- ☐ 20 Government Administration

Statement of Significance: The item was an integral part of the Eveleigh Locomotive Workshops being associated with their operation for over 30 years. The item is an integral part of the forge assemblage. The item and its operation is easy to interpret from its existing fabric. The item exhibits a high degree of structural integrity.

Conservation Policy:

The item is to retained in its present location and be preserved as part of the forge assemblage and crane collection to which it belongs.

Policy Implementation:

A heavily rusted surface should be cleaned with abrasive blasting using a limestone or similar abrasive or steel wire brushing. Remnant rust should be treated with an inhibitor and finally coated with an appropriate sealant such as Shell ENSIS fluid or polycrystalline wax.

Conserve. May reposition in same bay.

Maintenance Schedule

Inspect for physical damage and deterioration every 12 months and implement repair as necessary.

Inspect all external surfaces for rust every 5 years. Where necessary, treat as recommended in the implementation section.

Interpretation:

Item Name: 700 Weight CWT Electro-Pneumatic Hammer | **Item No.** 60

Name Plate: PTC NSW HH1 EVE S/O - B & S MASSEY LTD. MANCHESTER. ENGLAND. 7 CWT PNEUMATIC HAMMER.

Associated Items:

Individual	☐	
Assemblage	☑	Electropneumatic 7CWT 44, 45, 58-60, 62AB, 66F, 66A
System	☐	
Collection	☑	Electropneumatic hammers 60, 98, 96

Description: This Electro-Pneumatic Hammer operates on the same principle as a steam engine. The power pack for the hammer though is an air compressor which is an integral part of the hammer. A stand-alone electric motor powers the single piston air compressor which then supplies the head of the hammer with compressed air. Basically it stands in excess of 2 metres high, is about 2.5 metres long and about 1 metre wide at the base. It has the typical C-shaped heavy cast-iron construction of steam for electro-pneumatic hammers.

History: The history of the item is unknown but it was installed in this location of the workshops prior to World War II.

Function and Operation: The hammer was used for a wide section of general purpose forging. The head will take a series of flatters, fullers and swages as will the anvil. The operating lever determines both the repetity of the stroke and the weight of each blow. The material being forged is held by tongs which are supported by a chain loop attached to the Jib Crane.

Location: Bay 1 South 14

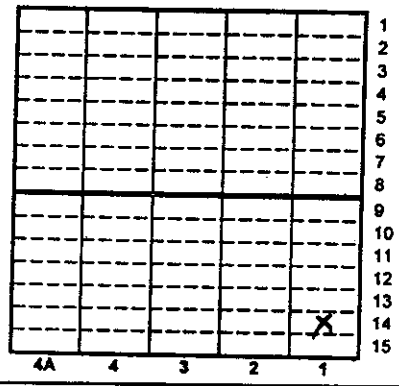
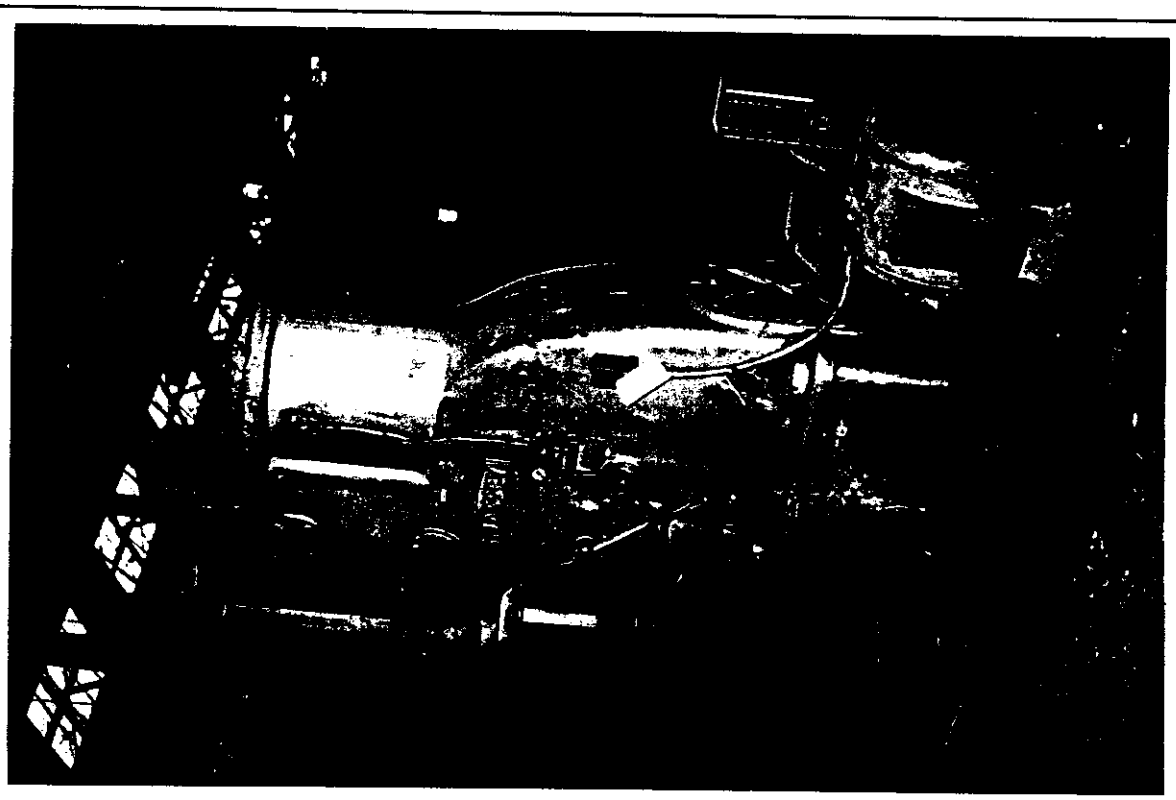


Photo: **FILM No.** 95-169-1-27 **Photographed and inspected December 1995**



Item Name: B & S Massey 7 CWT Electro-Pneumatic Hammer | **Item No.** 60

Condition:

The item is in good/excellent operating condition.

Significance Matrix

	Historical	Aesthetic	Social	Technology/ Research Potential
Rare	☑	☑	☐	☑
Repres-entative	☑	☐	☐	☑

State Historical Themes:

Category ☐ Moveable Item ☐ Industrial Relic

Themes
- ☐ 13 Transport
- ☐ 15 Utilities
- ☐ 16 Industry
- ☐ 18 Technology
- ☐ 20 Government Administration

Statement of Significance

The item was an integral part of the Eveleigh Locomotive Workshops being associated with their operation for over 50 years.

The item is an integral part of the electro-pneumatic assemblage.

The item and its operation is easy to interpret from its existing fabric.

The item exhibits a high degree of structural integrity.

Conservation Policy:

The item is to remain operational. Conserve in situ.

Policy Implementation:

The item is to remain operational. Conserve in situ.

Maintenance Schedule

Inspect for physical damage and deterioration every 12 months and implement maintenance repair as necessary.

Interpretation:

Item Name: Rootes No. 6 Blower 1910 Pattern **Item No.** 61

Name Plate: No.752 NSWGR Class BR THWAITES BROS LTD. BRADFORD YORKS. ROOTES BLOWER No.6

Associated Items:

Individual	☐	
Assemblage	☐	
System	☑	Steam 1, 2, 3, 4, 28, 29, 31, 32, 41, 42, 61, 54, 57, 188, 189, 190, 191
Collection	☑	Blowers 41, 42, 61

Description: The Rootes Blower is a single piston steam engine with twin shafts operating a counter-rotating vane air pump. The Blower supplies high volume low pressure air to the Blacksmiths Forges. The power pack is a simple vertical steam cylinder with a single shaft which is connected to a cross-head which has twin crank shafts. Each of the crank shafts is fitted to a driving wheel, direct coupled to a vane shaft.

History: The Rootes Blower was installed in 1911 to supply low pressure air to the Blacksmiths Forges. It is believed it was located in this position and has remained here since installation.

Function and Operation: The blowers supply air at low pressure compared to the air compressors which supply high pressure air. High pressure air is unsuitable for forgers as the amount of air going through is disruptive. When operating, the blower was turned on by opening the steam valve. The air was supplied to the furnaces or directed to exhaust.

Location: Bay 1 South 15E

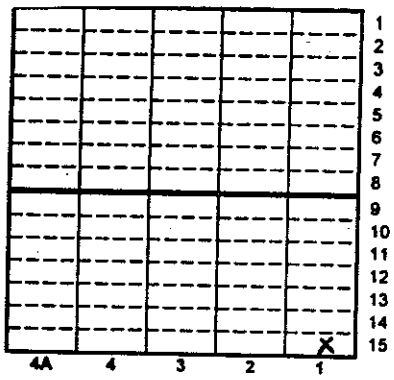


Photo: **FILM No.** 95-169-1-28 **Photographed and inspected December 1995**

Item Name: Rootes No. 6 Blower 1910 Pattern | **Item No.** 61

Condition:
In general, the item appears to be in operable condition providing power sources are connected and the item is cleaned, serviced and tested. The external surface of the item has patches of superficial rust and bare metal. The condition of the power source is unknown and the power source has probably been disconnected.

Significance Matrix

	Historical	Aesthetic	Social	Technology/ Research Potential
Rare	☒	☒	☐	☒
Repres-entative	☒	☐	☐	☒

State Historical Themes:

Category ☐ Moveable Item ☐ Industrial Relic

Themes
- ☐ 13 Transport
- ☐ 15 Utilities
- ☐ 16 Industry
- ☐ 18 Technology
- ☐ 20 Government Administration

Statement of Significance

The item was an integral part of the Eveleigh Locomotive Workshops being associated with their operation for over 75 years. The item is an integral part of the steam system. The item represents former manufacturing technologies now rarely evident in operating workshops. The item is impressive in size and form and exhibits a unity in its design and detail. The item has research and education potential for developing an understanding of early engineering practice.

Conservation Policy: The item is to be retained in its present location and preserved as part of the blower collection and steam system to which it belongs. The item is to be preserved by being cleaned, serviced and maintained according to the implementation and maintenance schedules given below.

Policy Implementation:

The machine is to be stripped, all cylinders cleaned and dried, all bearings and glands repacked, all internal bare metal surfaces are to be dried and greased to prevent rust. All external surfaces are to be cleaned and degreased using appropriate methods. All superficial rust is to be removed or treated. All external surfaces are to be treated with an appropriate sealant such as Shell ENSIS fluid or polycrystalline wax. All pipes are to be disconnected, cleaned, dried and treated with rust inhibitor. They may then be reconnected. All operating surfaces exhibiting a normally bright finish should be suitably polished and coated with an appropriate sealant such as Shell ENSIS fluid or a polycrystalline wax. Conserve in situ.

Maintenance Schedule

Inspect all external surfaces for rust every 12 months. Where necessary, coat as recommended in the implementation section. Every 5 years internal surfaces should be inspected for rust. Any rust or oxidation product must be treated suitably by being removed and coated with an inhibitor and sealant. Inspect for physical damage and deterioration every 12 months and implement repair as necessary. All operating surfaces exhibiting a normally bright finish should be suitably polished and coated with an appropriate sealant such as Shell ENSIS fluid or a polycrystalline wax.

Interpretation:

Item Name: Tool Racks Between the Columns. **Item No.**62a-e

Name Plate: N/A

Associated Items:

Individual	☐	
Assemblage	☑	Electropneumatic 7CWT 44, 45, 58-60, 62AB, 66F, 66A Electropneumatic 2CWT (south) 62A, 98, 99
System	☐	
Collection	☑	Hand tools/ Racks 34A-L, 36A-D, 62A-E, 66A-H, 71, 100A-D, 102A-D

Description: There are three rails which have intermediate supoort and run between the single columns between Bays 1 and 2 South. The top rail has a series of hooks or brackets on it which holds the swage sets or the spring swages and also any item which has had an eye formed in the end of the handle. The middle rail holds generally sets of tongs and hammers and steel handled hot sets. There are over 300 tools on these racks which all illustrate the way in which the workshop is operated.

History: The history of the items is unknown but some pieces appear to be of a great age.

Function and Operation: The items were all used with the various steam and electro-pneumatic hammers as well as hand forging operations.

Location: Bay 1 South 10-14W

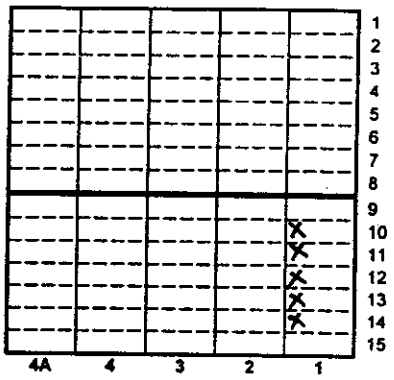
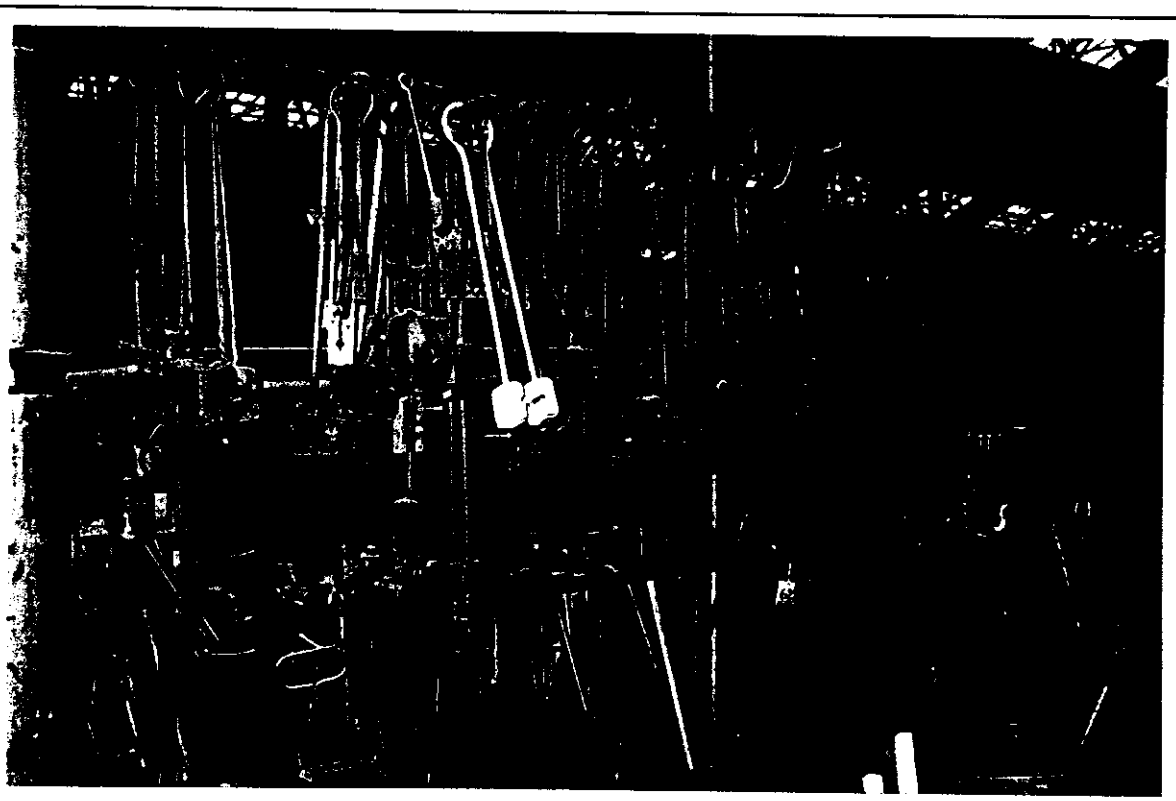


Photo: **FILM No.** 95-169-1-29 **Photographed and inspected December 1995**



Item Name: Tool Racks Between Columns | **Item No.**62a-e

Condition:

The item is in good/excellent operating condition.

The external surface of the item has patches of superficial rust and bare metal.

Significance Matrix

	Historical	Aesthetic	Social	Technology/ Research Potential
Rare	☐	☐	☐	☐
Repres-entative	☐	☐	☐	☐

State Historical Themes:

Category ☐ Moveable Item ☐ Industrial Relic

Themes
- ☐ 13 Transport
- ☐ 15 Utilities
- ☐ 16 Industry
- ☐ 18 Technology
- ☐ 20 Government Administration

Statement of Significance: The item was an integral part of the Eveleigh Locomotive Workshops being associated with their operation for over 20 years. The item is an integral part of the steam hammer and oliver systems. The item represents former manufacturing technologies now rarely evident in operating workshops. The item evidences the versatility of the workshops in the manufacture of tools and machines. The item and its operation is easy to interpret from its existing fabric.

Conservation Policy:

The item is to retained in its present location and be preserved as part of the steam hammer assemblage, and hand tool collections.

Policy Implementation:

All items which are not being used in the present operations in Bays 1 & 2 South Should have all external surfaces are to be cleaned and degreased using appropriate methods. All superficial rust is to be removed or treated with a rust converter. All external surfaces are to be treated with an appropriate sealant such as Shell ENSIS fluid or polycrystalline wax. Conserve in situ.

Maintenance Schedule

Inspect all external surfaces for rust every 12 months. Where necessary, coat as recommended in the implementation section.

Interpretation:

Item Name: Tool Rack - Belongs to Guido Gouvernor | **Item No.** 63

Name Plate:

Associated Items:

Individual ❑
Assemblage ❑
System ❑
Collection ❑

Description: No Description Required.

History:

Function and Operation:

Location: (O = original X = relocated)

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Photo: **FILM No.** **Photographed and inspected December 1995**

Item Name: NO ITEM - belongs to Guido Gouvernor | **Item No.** 63

Condition:

Significance Matrix

	Historical	Aesthetic	Social	Technology/ Research Potential
Rare	☐	☐	☐	☐
Repres-entative	☐	☐	☐	☐

State Historical Themes:

Category ☐ Moveable Item ☐ Industrial Relic

Themes
- ☐ 13 Transport
- ☐ 15 Utilities
- ☐ 16 Industry
- ☐ 18 Technology
- ☐ 20 Government Administration

Statement of Significance

Conservation Policy:

Policy Implementation:

Maintenance Schedule

Interpretation:

Item Name: Anvil | **Item No.** 64

Name Plate: N/A

Associated Items:

Individual ☑
Assemblage ☐
System ☐
Collection ☐

Description: This heavy blacksmiths anvil is located on a wooden block set into a fixed cast-iron stand.

History: The history is unknown.

Function and Operation: The anvil served as a blacksmiths anvil for performing small generally non-repetitive jobs.

Location: Bay 1 South 14-15W

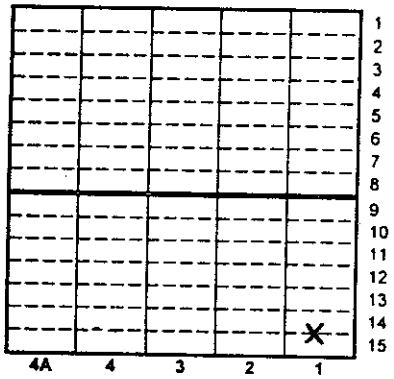


Photo: **FILM No.** 95-169-1-31 **Photographed and inspected December 1995**

Item Name: Anvil | **Item No.** 64

Condition:

The item is in good/excellent operating condition.

Significance Matrix

	Historical	Aesthetic	Social	Technology/ Research Potential
Rare	☐	☐	☐	☐
Repres-entative	☒	☐	☐	☒

State Historical Themes:

Category ☐ Moveable Item ☐ Industrial Relic

Themes
- ☐ 13 Transport
- ☐ 15 Utilities
- ☐ 16 Industry
- ☐ 18 Technology
- ☐ 20 Government Administration

Statement of Significance: The item was an integral part of the Eveleigh Locomotive Workshops being associated with their operation for over 90 years. The item and its operation is easy to interpret from its existing fabric. The item exhibits a high degree of structural integrity. The item is an integral part of the forge assemblage.

Conservation Policy:

The item is to remain operational.

Policy Implementation:

Conserve. May reposition in same bay.

Maintenance Schedule

Inspect for physical damage and deterioration every 12 months and implement repair as necessary.

Interpretation:

Item Name: Quenching Bath | **Item No.** 65

Name Plate: N/A

Associated Items:

Individual ☑
Assemblage ☐
System ☐
Collection ☐

Description: This small cast-iron bath with a counter-weighted steel mesh basket was used for quenching items as they came from the forge. The items were generally thrown directly into the oil bath and were then extracted by further weighting, the counter-weight lifting the basket.

History: The history of the item is unknown.

Function and Operation: As above.

Location: Bay 1 South 14W

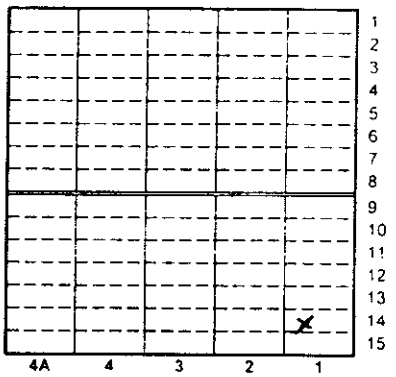
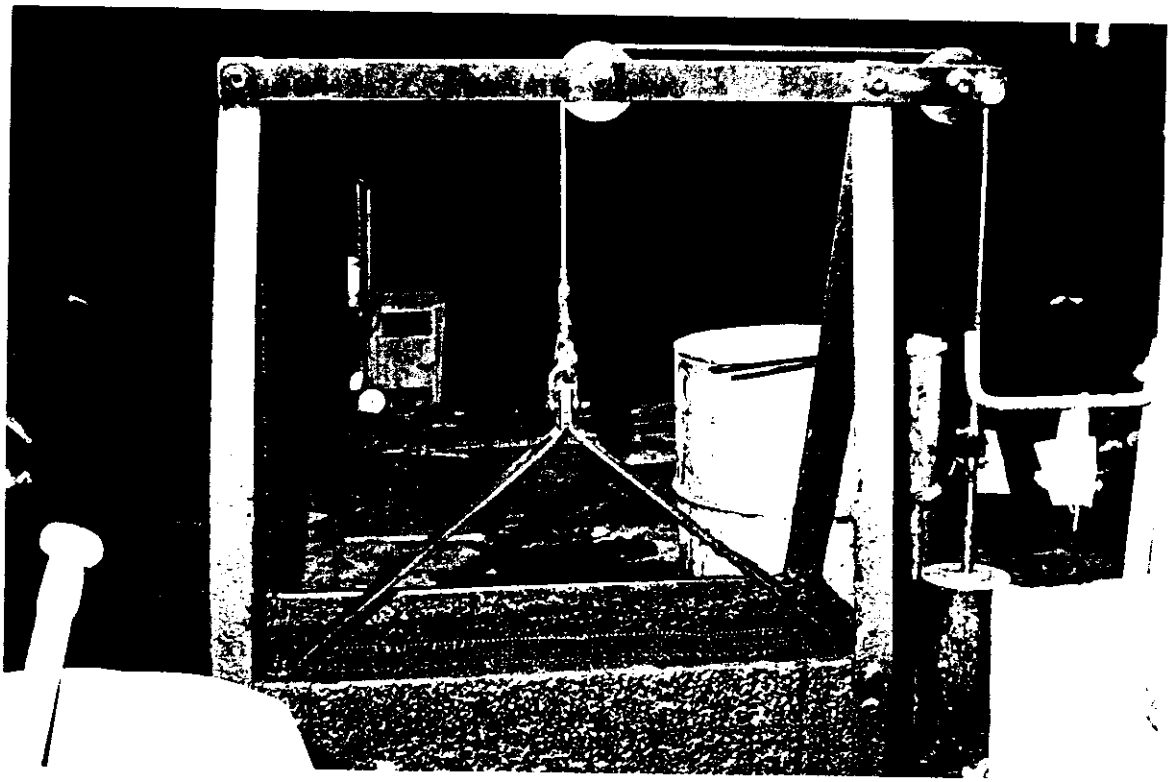


Photo: **FILM No.** 95-169-1-32 **Photographed and inspected December 1995**



Item Name: Quenching with Counter-Weighted Basket | **Item No.** 65

Condition:

The item is in good/excellent operating condition.

Significance Matrix

	Historical	Aesthetic	Social	Technology/ Research Potential
Rare	☐	☐	☐	☐
Repres-entative	☒	☐	☐	☒

State Historical Themes:

Category ☐ Moveable Item ☐ Industrial Relic

Themes
- ☐ 13 Transport
- ☐ 15 Utilities
- ☐ 16 Industry
- ☐ 18 Technology
- ☐ 20 Government Administration

Statement of Significance

The item was an integral part of the Eveleigh Locomotive Workshops being associated with their operation for over a number of years. The item and its operation is easy to interpret from its existing fabric. The item exhibits a high degree of structural integrity. The item is an integral part of the forge assemblage.

Conservation Policy:

The item is to remain operational.

Policy Implementation:

Conserve. May reposition in same bay.

Maintenance Schedule

Inspect for physical damage and deterioration every 12 months and implement repair as necessary.

Interpretation:

Item Name: Racks of Assorted Tools | **Item No.**66a-h

Name Plate: N/A

Associated Items:

Individual	☐	
Assemblage	☑	Electropneumatic 2CWT (south) 62A, 98, 99
System	☐	
Collection	☑	Hand tools/ Racks 34A-L, 36A-D, 62A-E, 66A-H, 71, 100A-D, 102A-D

Description: There are a series of racks made variously from angled steel rod and bar which are placed throughout the bay. These racks support a variety of tongs, fullers, flatters and dies. They were all used in conjunction with either the electro-pneumatic hammers, the steam hammers or the olivers and hand forging.

History: The history of the items is unknown.

Function and Operation: The items were all used by blacksmiths in forging operations.

Location: Bay 1South 10W-15E

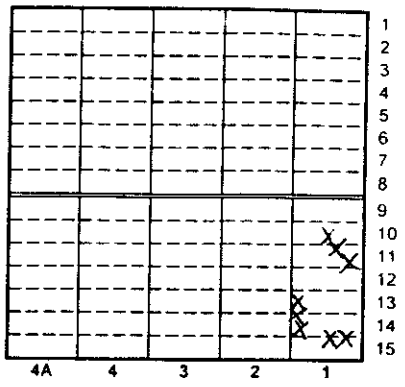


Photo: **FILM No.** 95-169-1-33 **Photographed and inspected December 1995**

Item Name: Racks of Assorted Tools | **Item No.**66a-h

Condition:

The item is in good/excellent operating condition.

The external surface of the item has patches of superficial rust and bare metal.

Significance Matrix

	Historical	Aesthetic	Social	Technology/ Research Potential
Rare	❑	❑	❑	❑
Repres-entative	❑	❑	❑	❑

State Historical Themes:

Category ❑ Moveable Item ❑ Industrial Relic

Themes
- ❑ 13 Transport
- ❑ 15 Utilities
- ❑ 16 Industry
- ❑ 18 Technology
- ❑ 20 Government Administration

Statement of Significance: The item was an integral part of the Eveleigh Locomotive Workshops being associated with their operation for over 20 years. The item is an integral part of the steam hammer and oliver systems. The item represents former manufacturing technologies now rarely evident in operating workshops. The item evidences the versatility of the workshops in the manufacture of tools and machines. The item and its operation is easy to interpret from its existing fabric.

Conservation Policy:

The item is to be retained in its present bay and preserved as part of the electro pneumatic hammer assemblage, and hand tool collections.

Policy Implementation:

All items which are not being used in the present operations in Bays 1 & 2 South should have all external surfaces cleaned and degreased using appropriate methods. All superficial rust is to be removed or treated. All external surfaces are to be treated with an appropriate sealant such as Shell ENSIS fluid or polycrystalline wax.

Conserve. May reposition in same bay.

Maintenance Schedule

Inspect all external surfaces for rust every 12 months. Where necessary, coat as recommended in the implementation section.

Interpretation:

Item Name: Warning Sign for 40CWT Steam Hammer | **Item No.** 67

Name Plate: N/A

Associated Items:

Individual	☐	
Assemblage	☑	Steam Hammer 40 CWT 47, 53, 54, 56, 66BCD, 70, 53
System	☐	
Collection	☐	

Description: This steel sheet sign states "Warning When 40CWT Hammer is operating do not pass this way". It was meant as a safety device to prevent the area around the steam hammer being used as a thoroughfare when it was operating.

History: The history of the item is unknown, but the sign, because of its condition and the font used, would appear to be no older than 20 years.

Function and Operation: One sign was placed to the south of the hammer and one to the north of the hammer to prevent passage through the steam hammer area.

Location: Bay 1 South 13-14E

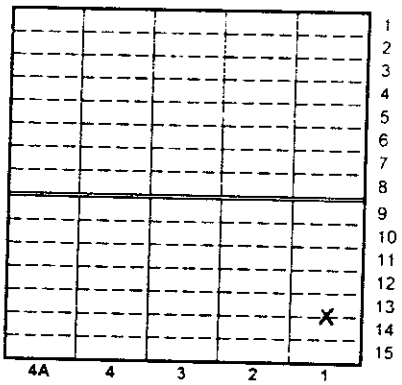
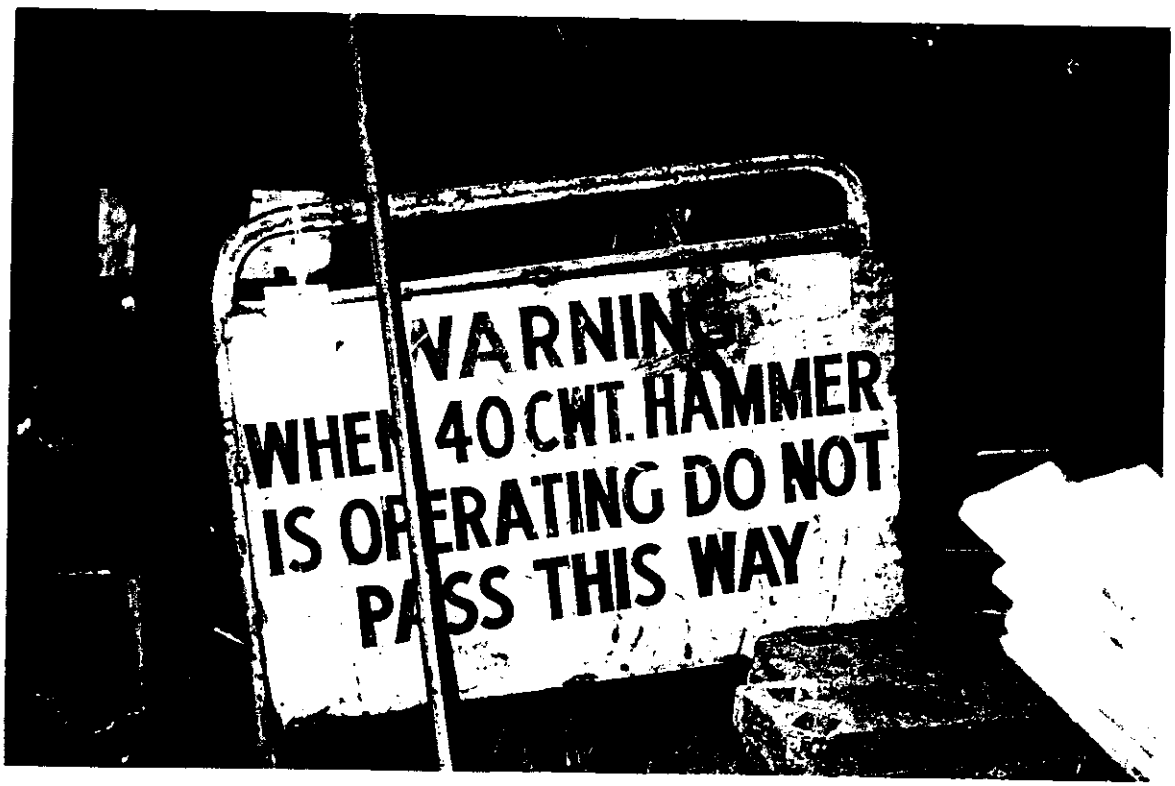


Photo: **FILM No.** 95-169-1-34 **Photographed and inspected December 1995**



Item Name: Warning Sign for 40CWT Steam Hammer | **Item No.** 67

Condition: The external surface of the item has patches of superficial rust and bare metal. The item exhibits heavy rust in places.

Significance Matrix

	Historical	Aesthetic	Social	Technology/ Research Potential
Rare	☒	☐	☐	☒
Repres-entative	☐	☐	☐	☒

State Historical Themes:

Category ☐ Moveable Item ☐ Industrial Relic

Themes
- ☐ 13 Transport
- ☐ 15 Utilities
- ☐ 16 Industry
- ☐ 18 Technology
- ☐ 20 Government Administration

Statement of Significance:

The item was an integral part of the Eveleigh Locomotive Workshops being associated with their operation for over 20 years. The item is an integral part of the Davy assemblage. The item has research and education potential for developing an understanding of early engineering practice. The item will yield information on the nature of past work practices.

Conservation Policy:

The item is to be preserved by being cleaned, serviced and maintained according to the implementation and maintenance schedules given below.

Conserve. May reposition in same bay.

Policy Implementation:

All external surfaces are to be cleaned and degreased using appropriate methods. All superficial rust is to be removed or treated. All external surfaces are to be treated with an appropriate sealant such as Shell ENSIS fluid or polycrystalline wax. The rust areas are to be removed by gentle brushing, treated with inhibitor and the whole surface waxed.

Conserve. May reposition in same bay.

Maintenance Schedule

Inspect all external surfaces for rust every 12 months. Where necessary, coat as recommended in the implementation section.

Interpretation:

Item Name: Stands of Assorted Dies | **Item No.**68a-e

Name Plate: N/A

Associated Items:

Individual ☑
Assemblage ☐
System ☐
Collection ☐

Description: There are five stands made variously of sheet plate steel, angle iron strap and rod which support a variety of dies and work in progress. All of the pieces show signs of rust and indicate they have not been used recently. The dies were used in conjunction with the steam hammers or the hydraulic presses. The partially fitted pieces of work were possibly formed on the steam hammer or Davy and were brought here for finishing.

History: The history of the items is unknown.

Function and Operation: The function and operation is not fully understood.

Location: Bay 1 South 9W-12E

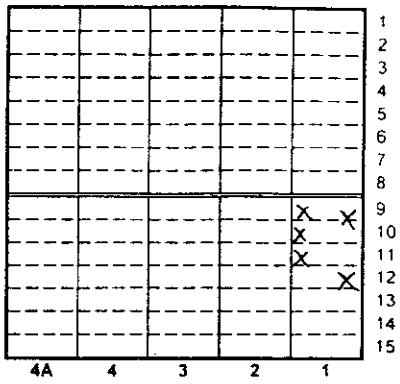
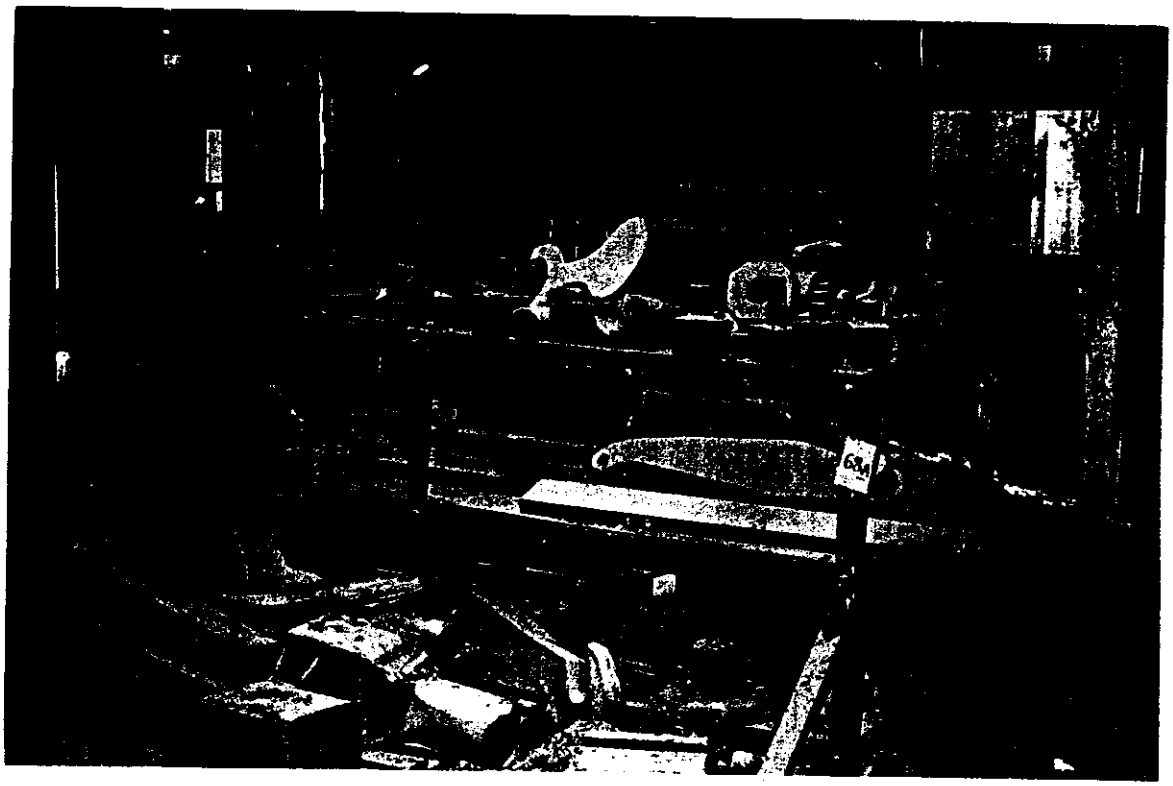


Photo: **FILM No.** 95-169-1-35 **Photographed and inspected December 1995**



Item Name: Stands of Assorted Dies | **Item No.**68a-e

Condition: The external surface of the items has patches of superficial rust and bare metal. The items exhibit heavy rust in places.

Significance Matrix

	Historical	Aesthetic	Social	Technology/ Research Potential
Rare	☒	☐	☐	☒
Repres-entative	☐	☐	☐	☒

State Historical Themes:

Category ☐ Moveable Item ☐ Industrial Relic

Themes
- ☐ 13 Transport
- ☐ 15 Utilities
- ☐ 16 Industry
- ☐ 18 Technology
- ☐ 20 Government Administration

Statement of Significance:

The items were an integral part of the Eveleigh Locomotive Workshops being associated with their operation for over 20 years. The items are an integral part of the Davy assemblage. The items have research and education potential for developing an understanding of early engineering practice. The items will yield information on the nature of past work practices.

Conservation Policy:

The items are to be preserved by being cleaned, serviced and maintained according to the implementation and maintenance schedules given below.

Conserve. May reposition in same bay.

Policy Implementation:

All external surfaces are to be cleaned and degreased using appropriate methods. All superficial rust is to be removed or treated. All external surfaces are to be treated with an appropriate sealant such as Shell ENSIS fluid or polycrystalline wax.

Conserve. May reposition in same bay.

Maintenance Schedule

Inspect all external surfaces for rust every 12 months. Where necessary, coat as recommended in the implementation section.

Interpretation:

Item Name: Metal Trolley Bin | **Item No.** 69

Name Plate: N/A

Associated Items:

Individual ☑
Assemblage ☐
System ☐
Collection ☐

Description: This small bin, which measures about 800mm by 400mm by 500mm high is fitted with two steel legs at the rear and two wheels at the front. It was basically for moving close to blacksmiths operating areas for the collection of scrap.

History: Unknown.

Function and Operation: N/A

Location: Bay 1 South 11-12

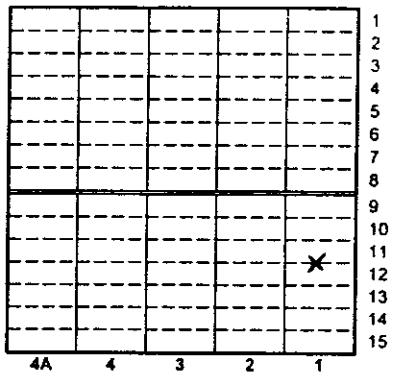
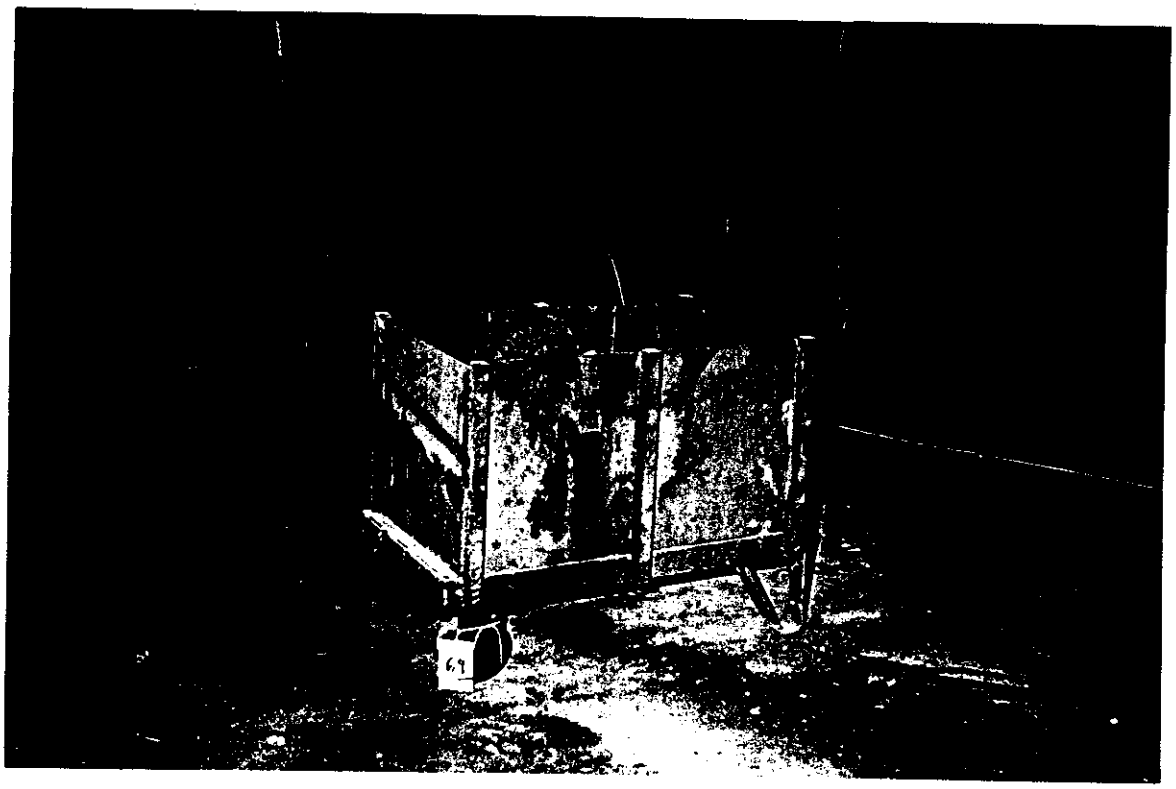


Photo: **FILM No.** 95-169-2-1 **Photographed and inspected December 1995**



Item Name: Metal Trolley Bin | **Item No.** 69

Condition:

The item is in good/excellent operating condition.

The external surface of the item has patches of superficial rust and bare metal.

Significance Matrix

	Historical	Aesthetic	Social	Technology/ Research Potential
Rare	☐	☐	☐	☐
Repres-entative	☐	☐	☐	☐

State Historical Themes:

Category ☐ Moveable Item ☐ Industrial Relic

Themes
- ☐ 13 Transport
- ☐ 15 Utilities
- ☐ 16 Industry
- ☐ 18 Technology
- ☐ 20 Government Administration

Statement of Significance: The item was an integral part of the Eveleigh Locomotive Workshops being associated with their operation for over 20 years. The item is an integral part of the steam hammer assemblage. The item represents former manufacturing technologies now rarely evident in operating workshops. The item evidences the versatility of the workshops in the manufacture of tools and machines. The item and its operation is easy to interpret from its existing fabric.

Conservation Policy:

The item is to retained in its present bay and be preserved as part of the steam hammer assemblage, and hand tool collections.

Policy Implementation:

All items which are not being used in the present operations in Bays 1 & 2 South should have all external surfaces cleaned and degreased using appropriate methods. All superficial rust is to be removed or treated. All external surfaces are to be treated with an appropriate sealant such as Shell ENSIS fluid or polycrystalline wax.

Conserve. May reposition in same bay.

Maintenance Schedule

Inspect all external surfaces for rust every 12 months. Where necessary, coat as recommended in the implementation section.

Interpretation:

Item Name: Warning Sign for 40CWT Steam Hammer | **Item No.** 70

Name Plate: N/A

Associated Items:

Individual ☐
Assemblage ☑ Steam Hammer 40 CWT 47, 53, 54, 56, 66BCD, 70, 53
System ☐
Collection ☐

Description: This steel sheet sign states "Warning When 40CWT Hammer is operating do not pass this way". It was meant as a safety device to prevent the area around the steam hammer being used as a thoroughfare when it was operating.

History: The history of the item is unknown but the sign, because of its condition and the font used, would appear to be no older than 20 years.

Function and Operation: One sign was placed to the south of the hammer and one to the north of the hammer to prevent passage through the steam hammer area.

Location: Bay 1 South 10W

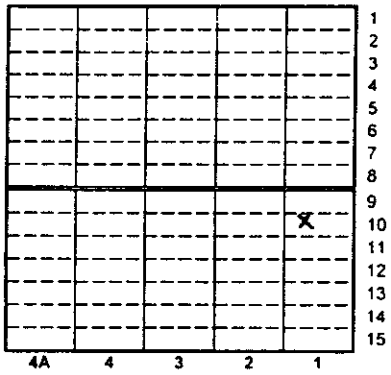
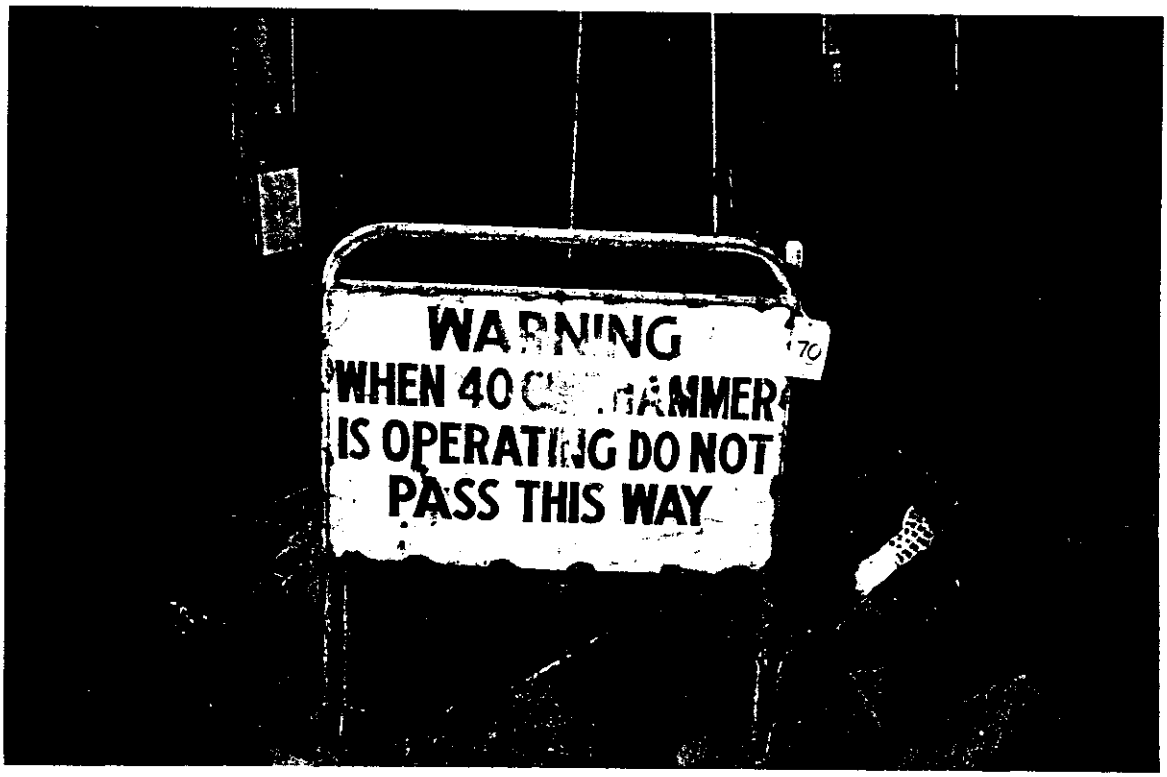


Photo: **FILM No.** 95-169-2-2 **Photographed and inspected December 1995**



Item Name: Warning Sign for 40 CWT Steam Hammer | **Item No.** 70

Condition: The external surface of the item has patches of superficial rust and bare metal. The item exhibits heavy rust in places.

Significance Matrix

	Historical	Aesthetic	Social	Technology/ Research Potential
Rare	☒	☐	☐	☒
Repres-entative	☐	☐	☐	☒

State Historical Themes:

Category ☐ Moveable Item ☐ Industrial Relic

Themes
- ☐ 13 Transport
- ☐ 15 Utilities
- ☐ 16 Industry
- ☐ 18 Technology
- ☐ 20 Government Administration

Statement of Significance:

The item was an integral part of the Eveleigh Locomotive Workshops being associated with their operation for over 20 years. The item is an integral part of the Davy assemblage. The item has research and education potential for developing an understanding of early engineering practice. The item will yield information on the nature of past work practices.

Conservation Policy:

The item is to be preserved by being cleaned, serviced and maintained according to the implementation and maintenance schedules given below.

Conserve. May reposition in same bay.

Policy Implementation:

All external surfaces are to be cleaned and degreased using appropriate methods. All superficial rust is to be removed or treated. All external surfaces are to be treated with an appropriate sealant such as Shell ENSIS fluid or polycrystalline wax.

Conserve. May reposition in same bay.

Maintenance Schedule

Inspect all external surfaces for rust every 12 months. Where necessary, coat as recommended in the implementation section.

Interpretation:

Item Name: Assorted Tools | **Item No.** 71

Name Plate: N/A

Associated Items:

Individual	☐	
Assemblage	☑	Steam Hammer 20 CWT 46, 47, 57, 66E, 71
System	☐	
Collection	☐	

Description: This series of tools consists of fullers, flatters and rods which were used in conjunction with the steam hammer or electro-pneumatic hammers.

History: Unknown

Function and Operation: N/A

Location: Bay 1 South 10E

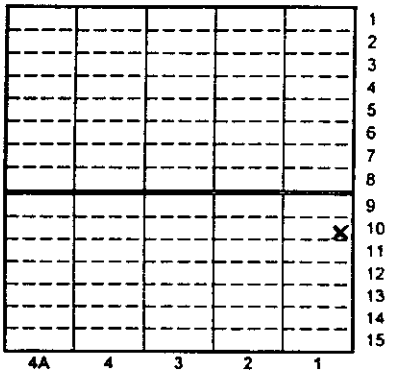


Photo: **FILM No.** 95-169-2-3 **Photographed and inspected December 1995**

Item Name: Assorted Tools | **Item No.** 71

Condition:

The item is in good/excellent operating condition.

The external surface of the item has patches of superficial rust and bare metal.

Significance Matrix

	Historical	Aesthetic	Social	Technology/ Research Potential
Rare	☐	☐	☐	☐
Repres-entative	☐	☐	☐	☐

State Historical Themes:

Category ☐ Moveable Item ☐ Industrial Relic

Themes
- ☐ 13 Transport
- ☐ 15 Utilities
- ☐ 16 Industry
- ☐ 18 Technology
- ☐ 20 Government Administration

Statement of Significance: The item was an integral part of the Eveleigh Locomotive Workshops being associated with their operation for over 20 years. The item is an integral part of the steam hammer and oliver systems. The item represents former manufacturing technologies now rarely evident in operating workshops. The item evidences the versatility of the workshops in the manufacture of tools and machines. The item and its operation is easy to interpret from its existing fabric.

Conservation Policy:

The item is to retained in its present bay and be preserved as part of the steam hammer assemblage, and hand tool collections.

Policy Implementation:

All items which are not being used in the present operations in Bays 1 & 2 South should have all external surfaces cleaned and degreased using appropriate methods. All superficial rust is to be removed or treated. All external surfaces are to be treated with an appropriate sealant such as Shell ENSIS fluid or polycrystalline wax.

Conserve. May reposition in same bay.

Maintenance Schedule

Inspect all external surfaces for rust every 12 months. Where necessary, coat as recommended in the implementation section.

Interpretation:

Item Name: Hot Metal Trolley | **Item No.** 72

Name Plate: N/A

Associated Items:

Individual ❑
Assemblage ☑ Steam Hammer 40 CWT 47, 53, 54, 56, 66BCD, 70, 53
System ❑
Collection ❑

Description: This hot metal trolley consists of two cast wheels on a simple axle to which two brackets have been bolted. The brackets support a flat plate steel top to which a 2.5 metre handle has been bolted. The trolley was used for receiving hot metal billets as they were brought from the furnace and allowed their manipulation as they were being attached to holders or balanced tongs.

History: The history of the item is unknown but it is certain that it was manufactured before World War II.

Function and Operation: As above.

Location: Bay 1 South 11-12E

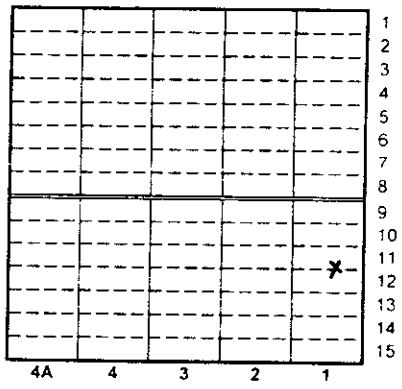
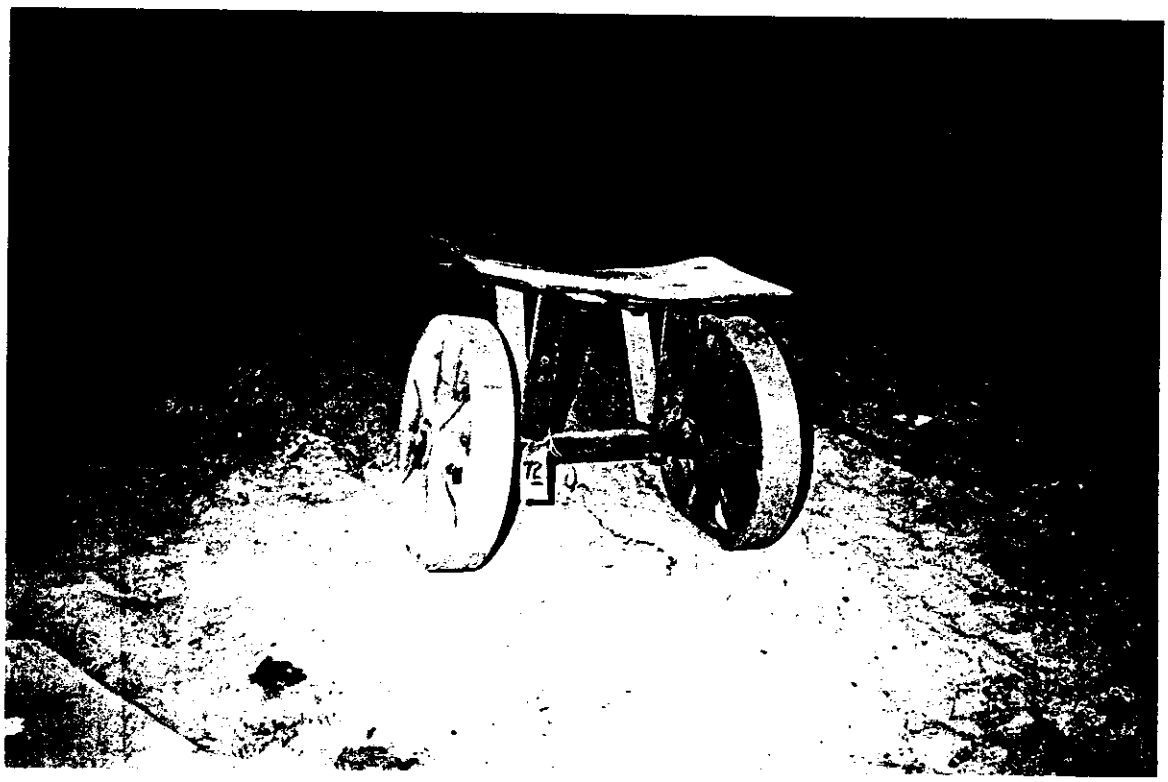


Photo: **FILM No.** 95-169-2-4 **Photographed and inspected December 1995**



Item Name: Hot Metal Trolley | **Item No.** 72

Condition:

The item is in good/excellent operating condition.

The external surface of the item has patches of superficial rust and bare metal.

Significance Matrix

	Historical	Aesthetic	Social	Technology/ Research Potential
Rare	☑	☐	☐	☐
Repres-entative	☑	☐	☐	☐

State Historical Themes:

Category ☐ Moveable Item ☐ Industrial Relic

Themes
- ☐ 13 Transport
- ☐ 15 Utilities
- ☐ 16 Industry
- ☐ 18 Technology
- ☐ 20 Government Administration

Statement of Significance: The item was an integral part of the Eveleigh Locomotive Workshops being associated with their operation for over 20 years. The item is an integral part of the steam hammer and oliver systems. The item represents former manufacturing technologies now rarely evident in operating workshops. The item evidences the versatility of the workshops in the manufacture of tools and machines. The item and its operation is easy to interpret from its existing fabric.

Conservation Policy:

The item is to retained in its present location and be preserved as part of the steam hammer assemblage, and hand tool collections.

Policy Implementation:

All items which are not being used in the present operations in Bays 1 & 2 South should have all external surfaces cleaned and degreased using appropriate methods. All superficial rust is to be removed or treated. All external surfaces are to be treated with an appropriate sealant such as Shell ENSIS fluid or polycrystalline wax.

Conserve. May reposition in same bay.

Maintenance Schedule

Inspect all external surfaces for rust every 12 months. Where necessary, coat as recommended in the implementation section.

Interpretation:

Item Name: Crane Tong Support | **Item No.** 73

Name Plate: N/A

Associated Items:

Individual ☐
Assemblage ☑ Steam Hammer 40 CWT 47, 53, 54, 56, 66BCD, 70, 53
System ☐
Collection ☐

Description: This Crane Tong Support consists of a roller, which ran on the Jib Crane, a wishbone, which holds a trunnion, to which a threaded shaft and wheel is attached for raising or lowering the chain which held a set of balanced tongs.

History: The history of the item is unknown but is probably of the same age as the earliest of the jib cranes.

Function and Operation: The balanced tongs which held the billet for manipulation beneath the electro-pneumatic or steam hammers was passed through the chain. In this way the billet could be very easily manipulated. The tong support also allowed the transfer of the hot item back to the furnace.

Location: Bay 1 South 12E

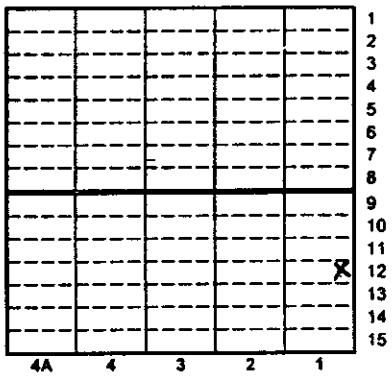
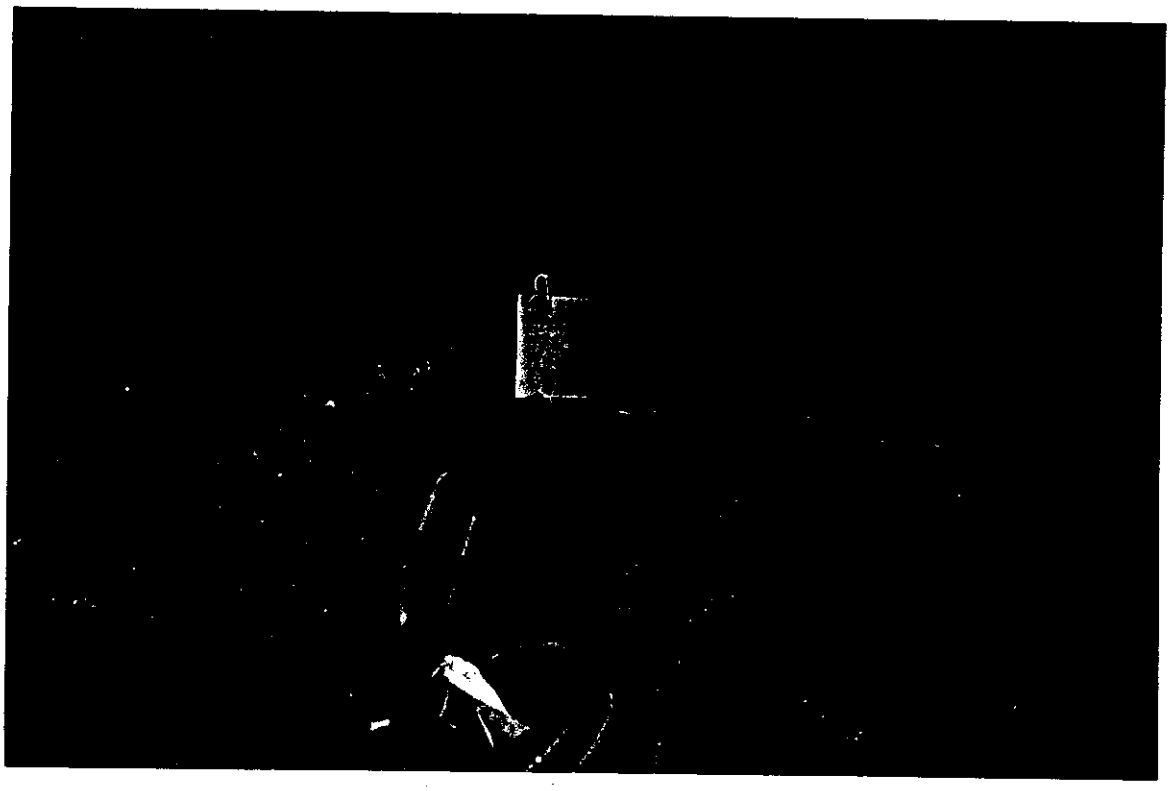


Photo: **FILM No.** 95-169-2-5 **Photographed and inspected December 1995**



Item Name: Crane Tong Support | **Item No.** 73

Condition:

The item is in good/excellent operating condition.

The external surface of the item has patches of superficial rust and bare metal.

Significance Matrix

	Historical	Aesthetic	Social	Technology/ Research Potential
Rare	☑	☐	☐	☐
Repres-entative	☑	☐	☐	☐

State Historical Themes:

Category ☐ Moveable Item ☐ Industrial Relic

Themes
- ☐ 13 Transport
- ☐ 15 Utilities
- ☐ 16 Industry
- ☐ 18 Technology
- ☐ 20 Government Administration

Statement of Significance: The item was an integral part of the Eveleigh Locomotive Workshops being associated with their operation for over 20 years. The item is an integral part of the steam hammer and oliver systems. The item represents former manufacturing technologies now rarely evident in operating workshops. The item evidences the versatility of the workshops in the manufacture of tools and machines. The item and its operation is easy to interpret from its existing fabric.

Conservation Policy:

The item is to retained in its present location and be preserved as part of the steam hammer assemblage, and hand tool collections.

Policy Implementation:

All items which are not being used in the present operations in Bays 1 & 2 South should have all external surfaces cleaned and degreased using appropriate methods. All superficial rust is to be removed or treated. All external surfaces are to be treated with an appropriate sealant such as Shell ENSIS fluid or polycrystalline wax.

Conserve. May reposition in same bay.

Maintenance Schedule

Inspect all external surfaces for rust every 12 months. Where necessary, coat as recommended in the implementation section.

Interpretation:

Item Name: Metal Trolley **Item No.** 74

Name Plate: N/A

Associated Items:

Individual ☑
Assemblage ☐
System ☐
Collection ☐

Description: This small trolley with a cast iron and timber frame was used for moving plate metal around the workshops.

History: The history of the item is unknown.

Function and Operation: N/A

Location: Bay 1 South 13

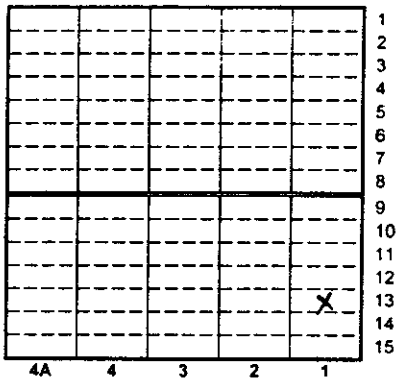
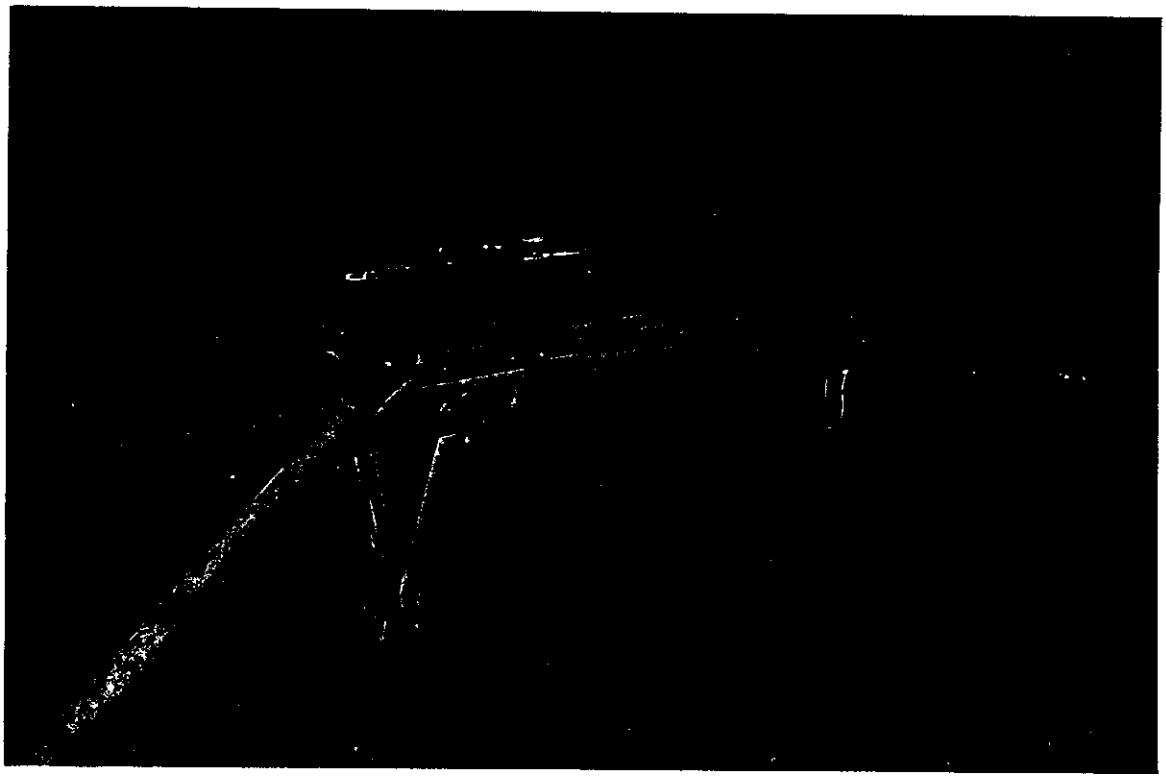


Photo: **FILM No.** 95-169-2-6 **Photographed and inspected December 1995**



Item Name: Metal Trolley | **Item No.** 74

Condition:

The item is in good/excellent operating condition.

The external surface of the item has patches of superficial rust and bare metal.

Significance Matrix

	Historical	Aesthetic	Social	Technology/ Research Potential
Rare	☑	☐	☐	☐
Repres-entative	☑	☐	☐	☐

State Historical Themes:

Category ☐ Moveable Item ☐ Industrial Relic

Themes
- ☐ 13 Transport
- ☐ 15 Utilities
- ☐ 16 Industry
- ☐ 18 Technology
- ☐ 20 Government Administration

Statement of Significance: The item was an integral part of the Eveleigh Locomotive Workshops being associated with their operation for over 20 years. The item is an integral part of the steam hammer and oliver systems. The item represents former manufacturing technologies now rarely evident in operating workshops. The item evidences the versatility of the workshops in the manufacture of tools and machines. The item and its operation is easy to interpret from its existing fabric.

Conservation Policy:

The item is to retained and preserved.

Policy Implementation:

All items which are not being used in the present operations in Bays 1 & 2 South should have all external surfaces cleaned and degreased using appropriate methods. All superficial rust is to be removed or treated. All external surfaces are to be treated with an appropriate sealant such as Shell ENSIS fluid or polycrystalline wax.

Conserve. May reposition in same bay.

Maintenance Schedule

Inspect all external surfaces for rust every 12 months. Where necessary, coat as recommended in the implementation section.

Interpretation:

Item Name: Metal Trolley with 2 Metal Boxes | **Item No.** 75

Name Plate: N/A

Associated Items:

Individual ☑
Assemblage ☐
System ☐
Collection ☐

Description: This small trolley has a frame supported on two small wheels and two legs. It has an angled section post in each corner which stands about 500mm high. On it are two sheet metal baskets for holding scrap steel.

History: The history of the item is unknown.

Function and Operation: The small trolley was moved when empty from one location to another to receive scrap from various operations.

Location: Bay 1 South 13-14E

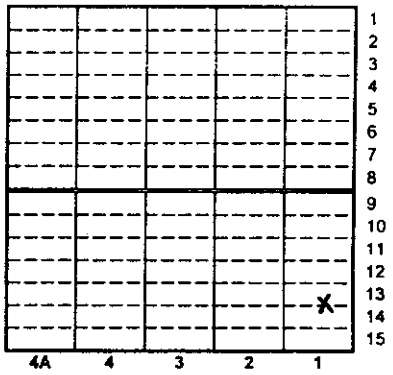
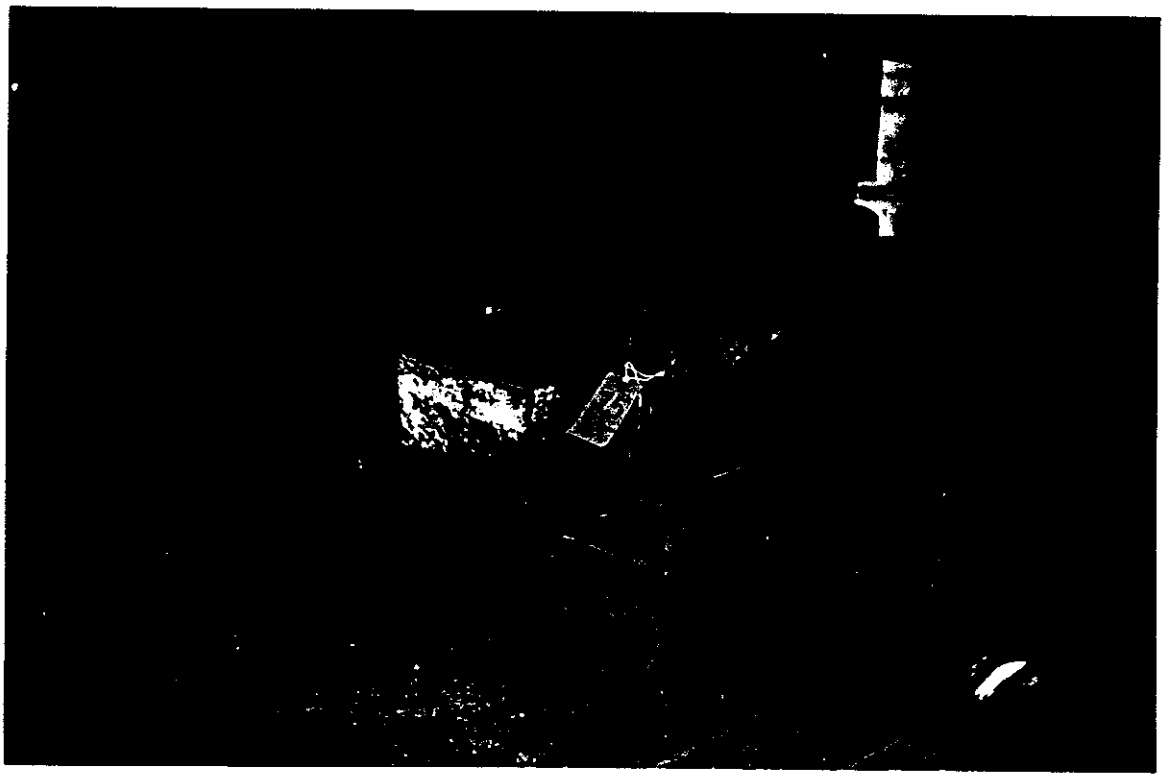


Photo: **FILM No.** 95-169-2-7 **Photographed and inspected December 1995**



Item Name: Metal Trolley with 2 Metal Boxes | **Item No.** 75

Condition:

The item is in good/excellent operating condition.

The external surface of the item has patches of superficial rust and bare metal.

Significance Matrix

	Historical	Aesthetic	Social	Technology/ Research Potential
Rare	☑	☐	☐	☐
Repres-entative	☑	☐	☐	☐

State Historical Themes:

Category ☐ Moveable Item ☐ Industrial Relic

Themes
- ☐ 13 Transport
- ☐ 15 Utilities
- ☐ 16 Industry
- ☐ 18 Technology
- ☐ 20 Government Administration

Statement of Significance: The item was an integral part of the Eveleigh Locomotive Workshops being associated with their operation for over 20 years. The item and its operation is easy to interpret from its existing fabric.

Conservation Policy:

The item is to retained and preserved.

Policy Implementation:

All items which are not being used in the present operations in Bays 1 & 2 South should have all external surfaces cleaned and degreased using appropriate methods. All superficial rust is to be removed or treated. All external surfaces are to be treated with an appropriate sealant such as Shell ENSIS fluid or polycrystalline wax.

Conserve. May reposition in same bay.

Maintenance Schedule

Inspect all external surfaces for rust every 12 months. Where necessary, coat as recommended in the implementation section.

Interpretation: