

## ATP S170 Register

### Bay 3

153	Ryerson Spring Forming Machine 1	3N 8C
154	Ryerson Spring Forming Machine 2	3N 8C
184	Hydraulic System Electric Motor	3S Annex
185	Hydraulic system pump	3S Annex
186	Hydraulic System Steam Pump	3S Annex
187	Hydraulic System Overhead Reservoir	3S Annex
192	Pressure vessel	3S Exterior
193	Hydraulic accumulator	3S Exterior
194	Hydraulic accumulator	3S Exterior
219	Craven Crane Name Plates	3N Level 3
408	Anvils (4)	3S
464	Pump Room Tool Collection	3S Annex

**Total number of items: 12**

## ATP S170 Register



Name plate: 'CRAVEN BROTHERS / LTD // MANCHESTER // 20 TONS / 1907' (oval plate, S)..

Two ovoid name plates from a 20-ton Craven Bros crane. Painted yellow and black, mounted in a timber frame. (Note: only one plate was available for inspection.)

**Significance:**

Item retained from an overhead travelling crane which was removed from the Loco Workshops and disposed of circa 2004. The item primarily has interpretive value.



Name plate: 'JOSEPH RYERSON & SON CHICAGO / U.S.A.' [on upper bar].

NSWG inventory ID: —.

'DO NOT SCRAP / PROP. OF / NATIONAL TRUST'.

This heavy, cast-iron framed spring bending machine is used for forming leaf springs. The appropriately curved dolly or mandrel is fixed to the moving front of the machine. The red hot steel spring lead is placed against it and the spring is then forced against a flexible steel chain belt. The spring then takes the shape of the dolly. It measures 300cm (L) x 120cm (W) x 95cm (H).

**Significance:**

This spring former is one of the component machines of the Eveleigh Railway Workshops Machinery Collection. It is primarily significant as one of the few surviving machines installed in the Spring Shop in the early 20th century. It demonstrates the operation of the Workshops in the production of locomotives and locomotive components. The



NSWG inventory ID: NSWGR / No. 1028 / Class X.

'DO NOT SCRAP / PROP. OF / NATIONAL TRUST'.

This heavy, cast-iron framed spring bending machine is used for forming leaf springs. The appropriately curved dolly or mandrel is fixed to the moving front of the machine. The red hot steel spring lead is placed against it and the spring is then forced against a flexible steel chain belt. The spring then takes the shape of the dolly. It measures 300cm (L) x 120cm (W) x 95cm (H).

**Significance:**

This spring former is one of the component machines of the Eveleigh Railway Workshops Machinery Collection. It is primarily significant as one of the few surviving machines installed in the Spring Shop in the early 20th century. It demonstrates the operation of the Workshops in the production of locomotives and locomotive components. The item is important to the understanding and interpretation of the overall Eveleigh Locomotive Workshops site.

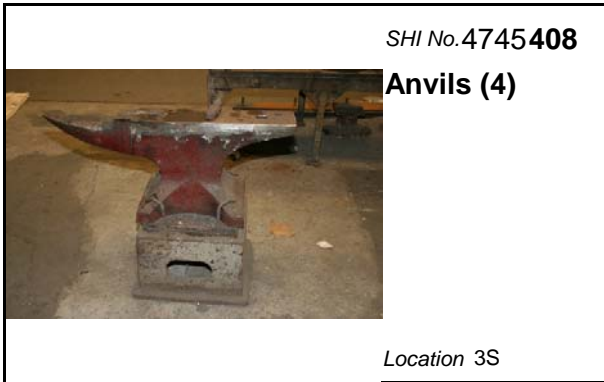


A collection of 3 tool cabinets, a timber work bench and a large assemblage of hand tools and spare parts relating to the maintenance of the Pump Room machinery. Cabinet A is located in the southwest corner and is 1900x1200mm, painted green. Cabinet B is located in the southeast corner and is 1400x1200mm, painted blue. Cabinet C is located in the northeast corner and is 1800x1200mm, painted green. The timber work bench has two drawers and is 2200x1300x1000mm.

**Significance:**

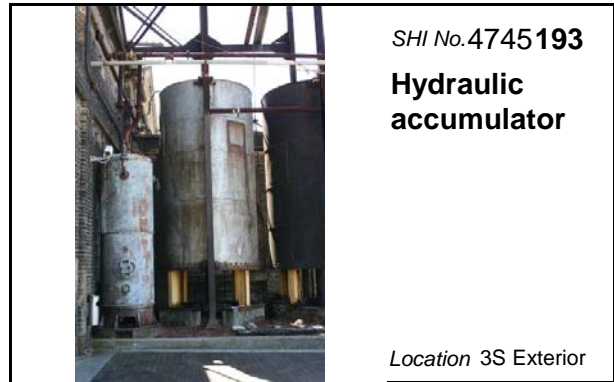
The Pump Room Tool Collection is one of the components of the Eveleigh Railway Workshops Machinery Collection. The machine is primarily significant as a part of an assemblage which demonstrates the operation of the Workshops in the production of locomotives and locomotive components. The item is important to the understanding and interpretation of the overall Eveleigh Locomotive Workshops site. This collection is particularly important as it forms part of the Pump Room Assemblage, the only intact and in situ assemblage at

## ATP S170 Register



*Significance:*

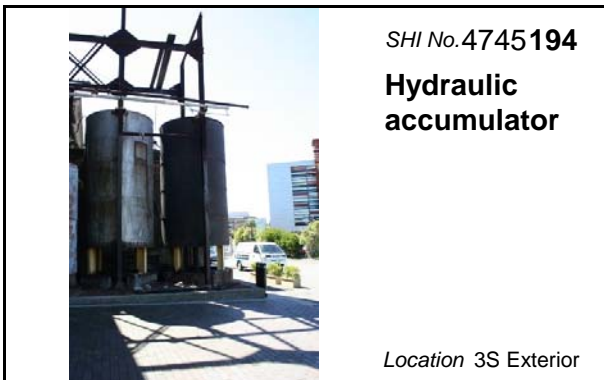
These items are typical of the anvils used throughout the Blacksmith shop. They have been relocated throughout the history of their use and are primarily important for their role in interpreting the function of the Blacksmith Shop.



A large cylindrical tank approximately 5m high and 3m in diameter comprised of welded and riveted sheet-metal panels. The rivets are mushroom-shaped. It is believed that both accumulators were filled with scrap iron and sandstone. The accumulator, through its weight, gives an artificial head to the water in the hydraulic system. The inlet and outlet is through a single pipe which enters the tank at the base. The accumulator is fitted with guide rails which have top and bottom, cutout and activating switches. (GML 1996)

*Significance:*

This item is a component of the Eveleigh Locomotive Workshops and assists in interpreting the historic operation of the site.



A large cylindrical tank approximately 4.5m high and 2.6m in diameter comprised of welded and riveted sheet-metal panels. The rivets are flat-headed. It is believed that both accumulators were filled with scrap iron and sandstone. The accumulator, through its weight, gives an artificial head to the water in the hydraulic system. The inlet and outlet is through a single pipe which enters the tank at the base. The accumulator is fitted with guide rails which have top and bottom, cutout and activating switches. (GML 1996)

*Significance:*

This item is a component of the Eveleigh Locomotive Workshops and assists in interpreting the historic operation of the site.



Large cylindrical pressure vessel on the southern exterior wall of Bay 3 comprised of a riveted cylindrical tank mounted on a concrete pedestal. There is a valve at the base and a pressure release at the top. The NSW government identification plate has been chipped off.

*Significance:*

This item is a component of the Eveleigh Locomotive Workshops and assists in interpreting the historic operation of the site.

## ATP S170 Register



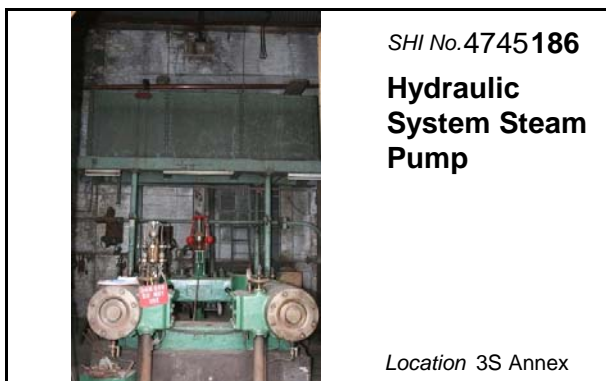
This hydraulic reservoir was installed in 1886 to hold the water for the hydraulic system. This hydraulic system exhausted waste and there appears to have been no return pipes. It consists of a rectangular riveted wrought iron tank, supported on timber and wrought iron supports above the horizontal steam pump.

*Significance:*

The Hydraulic System Overhead Reservoir is one of the component machines of the Eveleigh Railway Workshops Machinery Collection. The machine is primarily significant as a part of an assemblage which demonstrates the operation of the Workshops in the production of locomotives and locomotive components. The item is important to the understanding and interpretation of the overall Eveleigh Locomotive Workshops site. It is part of the Pump Room assemblage, which is unique on the site for being intact and in situ.

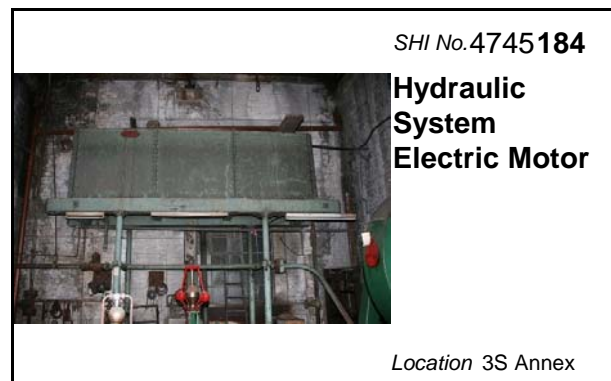


This item is located within the Pump Room in the Bay 3S Annex. The Annex is a brick addition with sandstone footings and copings, with a corrugated metal roof supported on metal trusses. This room is essentially untouched since the shutdown of the site and includes the complete hydraulic power assemblage, including the horizontal twin-head pump, the pump motor, overhead reservoir and associated hand tools. The Hydraulic System consists of an electric motor connected to the gearbox of a three throw electric pump, a steam hydraulic pump by Fielding and Platt, a water reservoir and two hydraulic accumulators. This is a vertical triplex, single acting pressure pump driven by a 100 horsepower electric motor via a very large reduction gear. The pump was installed in this location in 1914 and is by Hawthorn Davey and Company Limited of Leeds, England. The pump is mounted on a cast iron footing which also holds the platform on which the motor is mounted. When the workshops were in full swing the pump was switched on for each shift. The pump rotated continuously but was not placed under pressure unless hydraulic fluid was being sent through the system.



NSWG inventory ID: PTC NSW X-96-EVE S/O..  
'DO NOT SCRAP / PROP. OF / NATIONAL TRUST'.

This item is located within the Pump Room in the Bay 3S Annex. The Annex is a brick addition with sandstone footings and copings, with a corrugated metal roof supported on metal trusses. This room is essentially untouched since the shutdown of the site and includes the complete hydraulic power assemblage, including the horizontal twin-head pump, the pump motor, overhead reservoir and associated hand tools. This is a two-cylinder horizontal steam engine direct linked with a two-cylinder pressure pump manufactured in England, about 1885. The two reciprocating pump cylinders are each driven directly by steam cylinders by sharing a common piston shaft and are mounted behind and in line with each steam cylinder. The cylinders are marked 'L' and 'R'. The con-rods to the two metre diameter fly wheel are joined to the centre of each cylinder/pump/piston. Over speed regulation is by a governor driven from the fly wheel crank shaft. The pump is connected to the Number 4 steam boiler



This item is located within the Pump Room in the Bay 3S Annex. The Annex is a brick addition with sandstone footings and copings, with a corrugated metal roof supported on metal trusses. This room is essentially untouched since the shutdown of the site and includes the complete hydraulic power assemblage, including the horizontal twin-head pump, the pump motor, overhead reservoir and associated hand tools. The Hydraulic System consists of an electric motor connected to the gearbox of a three throw electric pump, a steam hydraulic pump by Fielding and Platt, a water reservoir and two hydraulic accumulators. This 100 horsepower motor is by Hawthorn Davey and Company Ltd of Leeds, England. It is believed that this motor was installed with the three throw pump. However, the base on which it stands indicates that another motor has been used to power the pump at some time in the past. The motor operates the pump continuously - but is only on load as hydraulic power is being consumed.

*Significance:*

The Hydraulic System Electric Motor is one of the component