

**THE ROYAL GUNPOWDER FACTORY,
WALTHAM ABBEY, ESSEX
AN RCHME SURVEY, 1993**

L173-199





THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER L175	OLD SERIES	RCHME NUMBER	N.G.R. 37615 01692
NAME/FUNCTION Firing Control Burning Ground		START DATE 1963	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION 1972 WASC 900/102 ; L175 1972 WASC 900/104 ; L175 1976 WASC 900/113 ; L175		DOCUMENTARY REFERENCES 1972 ERDE List ; Firing Control Burning Ground 1991 Mott McDonald survey 1992 RARDE List ; Firing Control Burning Ground	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME 1) 206/F/3 From South East	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: L178, Burning Ground			
CONDITION Good			
DESCRIPTION 1) CONSTRUCTIONAL MATERIAL Breeze Block 2) ROOF MATERIALS AND STRUCTURE Flat Concrete slab 3) POWER SOURCE Electricity 4) DIMENSIONS i) L 3.7 ii) W 2.73 iii) HT 2.2 5) This single storey building is rectangular in plan. It has a single door on the eastern elevation and armoured windows on the north and west elevations. The south elevation is featureless.			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER L176	OLD SERIES 204	RCHME NUMBER	N.G.R. TL 37734 01024
NAME/FUNCTION Boiler House Store EFDC/Riggers Shop		START DATE 1857 1958	END DATE 1958

NO PHOTOGRAPHY
AVAILABLE

<p>CARTOGRAPHIC DEPICTION</p> <p>1861-1868 WASC 900/10A ; 73 1865 WASC 900/13 ; Boiler House 1865 WASC 900/14 ; Boiler House 1865 WASC 900/38 + SUPP5 975 ; Boiler House 1865 WASC 900/41A ; Boiler House 1865 WASC 900/42 1897 WASC 900/53C c1910 WASC 900/65 ; Boiler House c1910 WASC 900/79 ; Boiler House 1917 WASC 900/70 ; Group A Boiler House 1917 WASC 900/72 ; 204 1919 WASC 900/74 ; 204 c1920 WASC 900/80 ; 204 1923 WASC 900/84 ; 204 > 1940 WASC 900/91A ; L176 1954 A - B.34 ; L176 c1960 WASC 900/94 ; L176 c1963 WASC 900/97 ; L176 1972 WASC 900/102 ; L176 1972 WASC 900/104 ; L176 1976 WASC 900/113 ; L176</p>	<p>DOCUMENTARY REFERENCES</p> <p>Plans; L176 B01,B02 ; Plans and Elevations 1902 to 1958</p> <p>1908 RGPF Ledger WASC 1509 + WASC 1764 ; Boiler House built 1857 p23</p> <p>c1925 RGPF Ledger WASC 1680 ; Boiler House c1945 RGPF Ledger WASC 1508 ; Boiler House</p> <p>1972 ERDE List ; Store EFDC/Riggers Shop 1991 Mott McDonald survey 1992 RARDE List ; Store EFDC/Riggers Shop</p> <p>1992 FBRC; Storage</p> <p>1993 RCHME NBR No.91452</p>
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<p>PHOTOGRAPHY HISTORIC</p>	<p>PHOTOGRAPHY RCHME</p> <p>1) 206/J/16 From South West 206/J/19 North wall from North 206/R/19 From South West</p> <p>2) BB92/26143 Interior of Boiler house from North BB92/26079 From North West</p> <p>3) 225/B/22 Interior 225/B/23 Interior 225/B/24 Exterior</p> <p>4) 4788/2 06.05.1993 4788/6 06.05.1993 4788/12 06.05.1993</p>
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RELATIONSHIPS WITH OTHER MONUMENTS

ASSOCIATED WITH: L168, L169, L170a ABUTTED BY: L177

CONDITION Good

DESCRIPTION

- 1) CONSTRUCTIONAL MATERIAL
Brick
- 2) ROOF MATERIALS AND STRUCTURE
Slate over Timber Roof Frame
- 3) POWER SOURCE
Formerly Steam , Electricity
- 4) DIMENSIONS i) L 17.6 ii) W 11.0 iii) HT 6.0
- 5) See attached RCHME Threatened Buildings Section report.

ROYAL COMMISSION ON THE HISTORICAL MONUMENTS OF ENGLAND

MOD Building No. L176
Boiler House
The Royal Gunpowder Factory
Waltham Abbey
Essex

NBR No: 91452
NGR: TL 37734 01024

Built in c1857 as a Boiler House for the earliest of the incorporating mills buildings (L168) on the Gunpowder Factory site, this building is single-storeyed with a rectangular plan and is constructed of yellow brick laid in English bond. Originally it had a brick chimney attached at its north side.

In 1902 a Dynamo House was added at the centre of the east elevation. In 1903 a Smith's Shop was built in the re-entrant angle on the south side of the Dynamo House, against the east wall of the Boiler House. The latter addition has since been demolished.

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Building L168 was built in c1857 as a Boiler House.¹ It is situated approximately 10 metres north of the western fork of the main canal and approximately 15 metres south of a contemporary Engine House and Mechanics Shop building (no. L168).² In conjunction with the latter building, it powered Group A Incorporating Mills (L176, now demolished) which adjoined the east side of L168.

It has a rectangular plan, of six bays by three bays³ (17.6 x 11 m), which is aligned north to south.⁴ It is single-storeyed and rises to height of approximately six metres. Originally it had an octagonal chimney on its north side and a coal yard on the east side.

Constructed of yellow brick laid in English bond, the building has a chamfered brick plinth and a brick dentil cornice. There are brick pilasters at the corners of the building on each side as well as an evenly-spaced pair of pilasters on each of the west and east elevations. The windows have cambered heads of rubbed red-brick. Originally the windows were sash and each had a rectangular blind panel below.⁵ There were three windows on the north elevation and windows flanking a central door on the south elevation. In pairs between the pilasters, there are six windows on the west elevation and six blind windows on the east elevation. The blind windows on the north side appear to be an original feature, as they are shown as such in a drawing of the building of 1856-7.⁶

Although the building is shown on a map of 1821, it is likely that such a representation is part of an updating of the map in the 1850s-60s, "A Survey of the Lands and Buildings, the Property of the Ordnance, at the Royal Powder Works, Waltham Abbey, made in compliance with the Master General and Boards Order 6th June 1821" (PRO, Hayes Repository). A drawing of the plan has alterations which are dated 1856 and 1857 (PRO, Hayes Repository). The Ledger of c1908 dates the building to 1857, cat. WASC 1509 (PRO, Hayes Repository)

Ledger c1908, cat. WASC 1509 (PRO, Hayes Repository).

The bays are described with reference to the number of windows (ie six by three), although pilasters divide the sides into three main bays by a single main bay.

The building is aligned north-north-west to south-south-east but for the clarity of this report it is described as if it was aligned north to south.

Undated elevation drawing, cat. LE179/1 (PRO, Hayes Repository).

Drawing of plan with alterations dated 1856 and 1857 (PRO, Hayes Repository).

The floor was of stone.⁷ The roof truss is of iron and incorporates decorative cast iron compression members. The roof is hipped and has slate coverings and a central skylight. The chimney was brick-built.

In 1902 new boilers were installed in building no. L176 and a Dynamo House with a lean-to roof was built at the centre of the east elevation.⁸ Constructed of brick, with a concrete floor and slate roof, it had two dynamos and an accumulator shelf. Also known as the Switchboard House, this addition points to a change in the building from steam power to electric power at this time and may coincide with a conversion in building no. L169 from gunpowder incorporating to cordite reeling.⁹

In the following year, 1903, a Smith's Shop was built in the south-east angle between the Boiler House and Dynamo House.¹⁰ Of a similar size as the Dynamo House, it also had a lean-to roof and was constructed of brick, with a concrete floor and corrugated iron roof.

The building has undergone several other alterations. The windows on the west elevation were enlarged by replacing the sashes with taller windows which extend to incorporate the former blind rectangular panels below. One of the blind windows on the east elevation was opened up and the open windows on the north elevation were made blind. A wide doorway was inserted at the centre of the north elevation. The Smith's Shop has been demolished some time after 1923.¹¹ By 1958 the Boiler House was used as a Store and a Riggers Shop.

Surveyed March 1993
Report by R L Burgess

Ledger c1908, cat. WASC 1509 (PRO, Hayes Repository).

Uncatalogued ink drawing showing Dynamo House and seating plan for new boilers (with a pit to suit footplates) Group A, (?old cat. no. 827), and Ledger c1908, cat. WASC 1509 (PRO, Hayes Repository).

In the OS County Series 1:2500 maps, 2nd ed. 1897 (surveyed 1865, revised 1895), sheet refs XLIX.14, XLI.8.12, XLII.5.9) Building L169 is labelled as Reeling Houses Group A.

Ledger c1908, cat. WASC 1509 (PRO, Hayes Repository).

The building is shown as the Smith's Shop in a 1:2500 site plan of the Royal Gunpowder Factory at Waltham Abbey, revised March 1923, cat. WASC 900/84.

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER L177	OLD SERIES 205	RCHME NUMBER	N.G.R. TL 37734 01024
NAME/FUNCTION Switch Board House Battery Charge House		START DATE 1902 1945?	END DATE 1945?
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
c1910 WASC 900/65 ; Switch Board House c1910 WASC 900/79 ; Switch Board House 1917 WASC 900/70 1917 WASC 900/72 ; 205 1919 WASC 900/74 c1920 WASC 900/80 ; 205 1923 WASC 900/84 ; 205 > 1940 WASC 900/91A ; L177 1954 A - B.34 ; L177 c1960 WASC 900/94 ; L177 c1963 WASC 900/97 ; L177 1972 WASC 900/102 ; L177 1972 WASC 900/104 ; L177 1976 WASC 900/113 ; L177		Plan; L177 B01 - 7/3/1902 ; Dynamo House 1908 RGPF Ledger WASC 1509 + WASC 1764 ; Switch Board House built 1902 p23 c1925 RGPF Ledger WASC 1680 ; Switch Board House c1945 RGPF Ledger WASC 1508 ; Switch Board House 1972 ERDE List ; Paint Spraying/Bartery Charging 1991 Mott McDonald survey 1992 RARDE List ; Battery Charging House	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
		1) 206/J/20 From North 3) 225/B/30 Exterior	
RELATIONSHIPS WITH OTHER MONUMENTS			
ABUTTS:L176			
CONDITION		Good	

DESCRIPTION

- 1) CONSTRUCTIONAL MATERIAL
Brick
- 2) ROOF MATERIALS AND STRUCTURE
Slate over timber boards supported purlins on Iron frames with glass roof lights.
- 3) POWER SOURCE
Steam, Electricity
- 4) DIMENSIONS i) L 8.1 ii) W 5.2 iii) HT 6.0
- 5) A date stone on the north elevation reads '1902-3'. The building is a single storey and has a rectangular plan, the roof is a single gable. The building has two windows on the east elevation and two windows and a double door on the northern elevation.

See attached RCHME Threatened Buildings Section report

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER L178	OLD SERIES	RCHME NUMBER	N.G.R. TL 37625 01691
NAME/FUNCTION Burning Ground Solvent Store		START DATE 1963?	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
1972	WASC 900/102 ; L178	1972	ERDE List ; Burning Ground Solvent Store
1972	WASC 900/104 ; L178	1991	Mott McDonald survey
1976	WASC 900/113 ; L178	1992	RARDE List ; Burning Ground Solvent Store
		1992	FBRC Flammable Store
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
		1) 206/F/2 From South	
RELATIONSHIPS WITH OTHER MONUMENTS			
ASSOCIATED WITH: L176			
CONDITION Good			
DESCRIPTION			
1)	CONSTRUCTIONAL MATERIAL Brick		
2)	ROOF MATERIALS AND STRUCTURE Corrugated Asbestos over wooden frame		
4)	DIMENSIONS i) L 2.45 ii) W 1.85 iii) HT 2.65		
5)	The building is a single storey with a rectangular ground plan, it has gabled ends to the north and south. On the southern elevation is a single metal grill door.		

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER L179	OLD SERIES	RCHME NUMBER	N.G.R. TL 37672 01458
NAME/FUNCTION Store		START DATE 196?	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION c1960 WASC 900/94 ; L179 c1963 WASC 900/97 ; L179 1972 WASC 900/102 ; L179 1972 WASC 900/104 ; L179 1976 WASC 900/113 ; L179		DOCUMENTARY REFERENCES Plan; L179 B02 - no date ; Building to Convert to Acid Store 1972 ERDE List ; Blacksmith Shop 1991 Mott McDonald survey 1992 RARDE List ; Blacksmiths Shop	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME 1) 206/D/36 From East	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: L134			
CONDITION Good			
DESCRIPTION 1) CONSTRUCTIONAL MATERIAL Corrugated Iron and Fibre Glass 2) ROOF MATERIALS AND STRUCTURE Corrugated Iron 3) POWER SOURCE Electricity 4) DIMENSIONS i) L 3.65 ii) W 3.6 iii) HT 2.3 5) The building is single storeyed witha rectangular ground plan. It is constructed on a timber frame covered by corrugated iron and asbestos. There is a single wooden door on the east side.			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER L180	OLD SERIES 208	RCHME NUMBER	N.G.R. TL 37770 01038
NAME/FUNCTION Pipe Fitters Shop & Store Paint Spraying/Welding Shop		START DATE 1902 194?	END DATE 194?
NO PHOTOGRAPHY AVAILABLE			
<p>CARTOGRAPHIC DEPICTION</p> <p>c1910 WASC 900/65 ; Pipe Fitters Shop & Store c1910 WASC 900/79 ; Pipe Fitters Shop & Store 1917 WASC 900/70 ; Pipe Fitters Shop & Store 1917 WASC 900/72 ; 208 1919 WASC 900/74 ; 208 c1920 WASC 900/80 ; 208 1923 WASC 900/84 ; 208 > 1940 WASC 900/91A ; L180 1954 A - B.34 ; ; L180 c1960 WASC 900/94 ; L180 c1963 WASC 900/97 ; L180 1972 WASC 900/102 ; L180 1972 WASC 900/104 ; L180 1976 WASC 900/113 ; L180</p>		<p>DOCUMENTARY REFERENCES</p> <p>Plan; L180 B01 - 18/10/1904 ; Painter shop 1908 RGPF Ledger WASC 1509 + WASC 1764 ; Pipe Fitters Shop & Store built 1905 p23 c1925 RGPF Ledger WASC 1680 ; Pipe Fitters Shop & Store c1945 RGPF Ledger WASC 1508 ; Pipe Fitters Shop & Store 1972 ERDE List ; Paint Spraying and Welding Shop 1991 Mott McDonald survey 1992 RARDE List ; Paint Spraying and Welding Shop</p>	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME 4) 4788/12 06.05.1993	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: L182			
CONDITION Fair			

DESCRIPTION

- 1) CONSTRUCTIONAL MATERIAL
Brick
- 2) ROOF MATERIALS AND STRUCTURE
Slate over boards supported on timber purlins.
- 3) POWER SOURCE
Electricity
- 4) DIMENSIONS i) L 10.10 ii) W 10.0 iii) HT 6.0
- 5) The building is single storeyed with a rectangular ground plans, it has gabled ends to the east and west. The northern elevation has two single doors, the southern elevation has single door in the west side is a modern double door. The west and east elevations each have three windows. Internally the building is divided into two rooms.

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER L181	OLD SERIES	RCHME NUMBER	N.G.R. TL 37757 01029
NAME/FUNCTION Sub Station		START DATE 1941?	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
c1960	WASC 900/94 ; L181	Plans;	
c1963	WASC 900/97 ; L181	L181	B01 - B07 ; Plans and Elevations 1941 to 1986
1972	WASC 900/102 ; L181		
1972	WASC 900/104 ; L181	1972	ERDE List ; Sub Station
1976	WASC 900/113 ; L181	1991	Mott McDonald survey
		1992	RARDE List ; Sub Station
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
		1) 206/R/34 From East 206/J/21 From North	
RELATIONSHIPS WITH OTHER MONUMENTS			
Part of: L182			
CONDITION Fair			
DESCRIPTION			
5) See L182			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER L182	OLD SERIES	RCHME NUMBER	N.G.R. TL 37770 01038
NAME/FUNCTION Mess Room		START DATE 1942?	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
1954	A - B.34 ; L182	Plans;	
c1960	WASC 900/94 ; L182	L182	B01,B02 ; Plans and Elevations 1942
c1963	WASC 900/97 ; L182		
1972	WASC 900/102 ; L182	1972	ERDE List ; BWD
1972	WASC 900/104 ; L182	1991	Mott McDonald survey
1976	WASC 900/113 ; L182	1992	RARDE List ; Mess Room
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
		1) 206/J/22 From South West 206/P/15 From West 4) 4788/12 06.05.1993	
RELATIONSHIPS WITH OTHER MONUMENTS			
CONSISTS OF: L180, L181			
CONDITION		Fair	
DESCRIPTION			
1)	CONSTRUCTIONAL MATERIAL Brick		
2)	ROOF MATERIALS AND STRUCTURE Flat concrete slab		
3)	POWER SOURCE Electricity		
4)	DIMENSIONS i) L 32.5 ii) W 4.7 iii) HT 3.9		
5)	The building is a single storey with a rectangular ground plan. traces of wavy camouflage paint may be discerned on the exterior of the building. Attached to the east end of the buuilding is L181 the west end was used as a gas bottle store.		

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER L183	OLD SERIES	RCHME NUMBER	N.G.R. TL 37760 01112
NAME/FUNCTION Solvent Store		START DATE 1971?	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION 1976 WASC 900/113 ; L183		DOCUMENTARY REFERENCES Plan; L183 B01 - 20/11/1971 ; Solvent Store 1991 Mott McDonald survey 1992 RARDE List ; Solvent Store	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME 1) 206/J/9 Floor slab from south	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH:			
CONDITION Demolished			
DESCRIPTION 1) CONSTRUCTIONAL MATERIAL Brick 3) POWER SOURCE Electricity 4) DIMENSIONS i) L 11.3 ii) W 7.7 5) The building rectangular in plan it was demolished in 1992 a concrete floor slab remains.			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER L185	OLD SERIES	RCHME NUMBER	N.G.R. TL 37600 01334
NAME/FUNCTION Green Hut /Sport & Social Club /Laboratory		START DATE 1962?	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION c1960 WASC 900/94 ; L185 c1963 WASC 900/97 ; L185 1972 WASC 900/102 ; L185 1972 WASC 900/104 ; L185 1976 WASC 900/113 ; L185		DOCUMENTARY REFERENCES Plans; L185 B01 - B03 ; Plans and Elevations 1949 to 1954 1972 ERDE List ; Green Hut/Sports and Social Club/Laboratory 1991 Mott McDonald survey 1992 RARDE List ; Green Hut/Sports and Social Club/Laboratory	
PHOTOGRAPHY HISTORIC WASC 1453 Main Lab from rear		PHOTOGRAPHY RCHME 1) 206/F/30 From South East	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH:			
CONDITION Fair			
DESCRIPTION 1) CONSTRUCTIONAL MATERIAL Timber frame and Boards 2) ROOF MATERIALS AND STRUCTURE Corrugated Asbestos over timber boards supported by a King post truss with braces. 3) POWER SOURCE Steam Electricity 4) DIMENSIONS i) L 14.8 ii) W 5.97 iii) HT 4.6 5) The building is a single storey, rectangular in plan, with gabled ends to the north and south. It is timber framed and covered by timber boards. On the east elevation are two double and one single windows, to the south is a single window, the west has three double windows a single door and a double door.			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER L186	OLD SERIES	RCHME NUMBER	N.G.R. TL37620 01345
NAME/FUNCTION Locker Magazine		START DATE 1950	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
1954	A - B.34 ; L186	1972	ERDE List ; Locker Magazine
c1960	WASC 900/94 ; L186	1991	Mott McDonald survey
c1963	WASC 900/97 ; L186	1992	RARDE List ; Locker Magazine
1972	WASC 900/102 ; L186	1992	FBRC Class 1 Explosives Magazine
1972	WASC 900/104 ; L186		
1976	WASC 900/113 ; L186		
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME 1) 206/F/31 From South West	
RELATIONSHIPS WITH OTHER MONUMENTS			
ASSOCIATED WITH: L191? / L185?			
CONDITION Good			
DESCRIPTION			
1)	CONSTRUCTIONAL MATERIAL Brick		
2)	ROOF MATERIALS AND STRUCTURE Corrugated Asbestos over timber		
3)	POWER SOURCE Electricity		
4)	DIMENSIONS i) L 13.4 ii) W 2.6 iii) HT 2.9		
5)	The locker magazine is a single storey building, rectangular in plan with gabled ends north and south. There are two doors on the west elevation. Within the building are six explosive lockers on the west side. It is thought that the magazine was last used in 1982. The building is earthed by a copper strip attached to the walls.		

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER L187	OLD SERIES	RCHME NUMBER	N.G.R. TL 37738 01197
NAME/FUNCTION Locker Magazine		START DATE 1950	END DATE 1982?
NO PHOTOGRAPHY AVAILABLE			
<p>CARTOGRAPHIC DEPICTION</p> <p>1954 A - B.34 ; L187 c1960 WASC 900/94 ; L187 c1963 WASC 900/97 ; L187 1972 WASC 900/102 ; L187 1972 WASC 900/104 ; L187 1976 WASC 900/113 ; L187</p>		<p>DOCUMENTARY REFERENCES</p> <p>1972 ERDE List ; Locker Magazine 1991 Mott McDonald survey 1992 FARDE List ; Locker Magazine 1992 FBRC Class 1 Explosives Store</p>	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
<p>RELATIONSHIPS WITH OTHER MONUMENTS</p> <p>ASSOCIATED WITH: L157, L156, L158, L174</p>			
CONDITION Demolished			
<p>DESCRIPTION</p> <p>1) CONSTRUCTIONAL MATERIAL Brick</p> <p>4) DIMENSIONS i) L 11.5 ii) W 3.0</p> <p>5) Building demolished concrete slab remains.</p>			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER L188	OLD SERIES	RCHME NUMBER	N.G.R. TL 37750 01327
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NAME/FUNCTION Locker Magazine	START DATE 1950	END DATE
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NO PHOTOGRAPHY
AVAILABLE

<p>CARTOGRAPHIC DEPICTION</p> <p>1954 A - B.34 ; L188 c1960 WASC 900/94 ; L188 c1963 WASC 900/97 ; L188 1972 WASC 900/102 ; L188 1972 WASC 900/104 ; L188 1976 WASC 900/113 ; L188</p>	<p>DOCUMENTARY REFERENCES</p> <p>1972 ERDE List ; Locker Magazine 1991 Mott McDonald survey 1992 RARDE List ; Locker Magazine 1992 FBRC Class 1 Explosives Magazine</p>
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<p>PHOTOGRAPHY HISTORIC</p>	<p>PHOTOGRAPHY RCHME 1) 206/G/34 From South West</p>
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RELATIONSHIPS WITH OTHER MONUMENTS

ASSOCIATED WITH: L192, L149?

CONDITION Good

DESCRIPTION

- 1) CONSTRUCTIONAL MATERIAL
Brick in English bond
- 2) ROOF MATERIALS AND STRUCTURE
Corrugated Asbestos
- 3) POWER SOURCE
Steam Electricity
- 4) DIMENSIONS i) L 13.45 ii) W 2.6 iii) HT Gable 2.9
- 5) The building is single storeyed with arectangular ground plan and gabled ends north and south. It has has two red doors on the south elevation. Internally are six me'al lockers numbered '21-26', the temperature within the building was maintained by steam and electric heating. On the exterior a lightning conductor is connected to an earth point.

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER L189	OLD SERIES	RCHME NUMBER	N.G.R. TL 37655 01550
NAME/FUNCTION Proof Stand		START DATE 1953-4	END DATE 198?
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
1954 A - B.34 ; L189 c1960 WASC 900/94 ; L189 c1963 WASC 900/97 ; L189 1972 WASC 900/102 ; L189 1972 WASC 900/104 ; L189 1976 WASC 900/113 ; L189		Plans; L189 B01 - B38 ; Plans and ELevations 1954 to 1976 1972 ERDE List ; Sensitivity 1991 Mott McDonald survey 1992 FARDE List ; Proof Stand 1992 FBRC Firing Chamber	
PHOTOGRAPHY HISTORIC WASC 1795/1-4 Firing point & damage to roof vents 5- Aug-1955		PHOTOGRAPHY RCHME 1) 206/B/35 Firing point from South 206/L/11 From North West 2) BB92/26131 firing point from East BB92/26132 Interior firing point from South East BB92/26133 Observation chamber West of Firing point from South East	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: L195, L199			
CONDITION Fair			

DESCRIPTION

- 1) CONSTRUCTIONAL MATERIAL
Breeze blocks, concrete, steel piles, armour plate, earth
- 2) ROOF MATERIALS AND STRUCTURE
Concrete, armour plate
- 3) POWER SOURCE
Electricity
- 5) The proof stand comprises of a number of separate features grouped around a central firing point enclosed within an earthwork traverse.

Separated from the proof stand to the west is a single storey building with a square ground plan 3.66m x 3.66m, 2.7m in height constructed in concrete. This building was entered through a single steel door on the west side. Within the room a sign reads 'L189 Firing Point Charge limit 5lbs Torpex'. The interior has largely been stripped out although a few wires and gauges remain.

Opposite to this building is the entrance to a chamber built into the earthen mound adjacent to the firing chamber. Within the west wall is an armoured glass window and below a small hole through which a control wire could pass. Although the room has largely been stripped out a few gauges and electrical fittings remain. There is a similar chamber on the west side that was used for the taking of photographs of experiments within the chamber. This chamber has an armoured glass window on its east side and a small hole for a control wire. Within the chamber is a teak topped bench and locker.

The central chamber is entered along a staggered passage way lined with steel piles from the north. The firing chamber is constructed from steel girders and is lined with armoured plates, the roof is also of armoured plate. It is rectangular in plan 5.45m x 4.5m. The plates within the chamber exhibit many signs of repair. To the east and west small control wire holes lead to the chambers described above, above these holes are removable armoured plated to protect the observation windows.

On the south wall of the firing chamber a steel firing tube, bore 10cm, connects to a small additional room on the south side of the mound. This chamber is roughly built from breeze block and is connected to the mound by wing walls of cement filled sandbags. It is roofed by a scaffold frame covered by tarpaulins. There are blast scars on the breeze block wall south of the exit from the firing tube. Warnings of test firings was given by klaxons on the east side of the mound.

Historic artefacts - gauges, klaxons, electrical objects fittings

Single storey building to west had a stack of c.6" x 1/2" steel plates, some of which had been used for proof testing, others unmarked. All collected and stored in A210.

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER L190a,b	OLD SERIES	RCHME NUMBER	N.G.R. TL 37555 01425
NAME/FUNCTION Climatic Cubicles Cells A & B		START DATE 1951	END DATE 198?
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION c1960 WASC 900/94 ; L190 c1963 WASC 900/97 ; L190 1972 WASC 900/102 ; L190 1972 WASC 900/104 ; L190 1976 WASC 900/113 ; L190		DOCUMENTARY REFERENCES Plans; L190 B01 - B08 ; Plans and Elevations 1951-7 1972 ERDE List ; Climatic Cubicles 1991 Mott McDonald survey 1992 RARDE List ; Climatic Cubicles 1992 FBRC ; Class 1 Explosives	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME 1) 206/C/7 From South East 206/C/8 From South East 206/C/9 From South West 2) BB92/26203 From South East BB92/26204 From North	
RELATIONSHIPS WITH OTHER MONUMENTS OVERLIES; 132a and Steam Cubicles			
CONDITION		Good	

DESCRIPTION

- 1) CONSTRUCTIONAL MATERIAL
Brick with reinforced concrete pillars
- 2) ROOF MATERIALS AND STRUCTURE
Corrugated Asbestos on concrete rafters
- 3) POWER SOURCE
Electricity
- 4) DIMENSIONS See below
- 5) The structure comprises of three separate buildings a central control room and two identical cubicle buildings.

The control room is a single storey building built of brick between the cubicles at their southern end. It is square in plan 4.1m x 4.1m, its height is 2.5m. On the south and north elevations are a single metal framed windows. On the west elevation are two metal framed windows, on the east elevation is a single door and window. An overhead wire insulator attached to the building is dated 1963.

North of the control room are the climatic cubicles separated by a narrow central courtyard. The buildings are a mirror image of one another, only the eastern cubicles L190a are described below. The western cubicles are numbered L190b.

The cubicles are a single storey structure with rectangular ground plan. They have gabled ends to the north and south with a central raised clerestory roof vent. The building has a reinforced concrete prefabricated structure of side pillars and roof supports. The end gable walls and parts of the sides are infilled by brick. Access to the cubicles is along a corridor to either side. The cubicles are brick built, they are numbered 1-8 along the east side and 9-14 along the west side.

The building is protected by a lightning conductor.

This building overlies a small wash house [132a] shown on WASC 900/84 in 1923. This inturn was overlaid by a building marked St. Cubicles about 1945 (Plan A-B.35)

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER L191	OLD SERIES	RCHME NUMBER	N.G.R. TL 37640 01348
NAME/FUNCTION Stability Test Laboratory		START DATE 1949-1952	END DATE
NO PHOTOGRAPHY AVAILABLE			
<p>CARTOGRAPHIC DEPICTION</p> <p>c1960 WASC 900/94 ; L191 c1963 WASC 900/97 ; L191 1972 WASC 900/102 ; L191 1972 WASC 900/104 ; L191 1976 WASC 900/113 ; L191</p>		<p>DOCUMENTARY REFERENCES</p> <p>Plans; L191 B01 - B13 ; Plans and Elevations 1949 to 1983</p> <p>1972 ERDE List ; Stability Test Laboratory 1991 Mott McDonald survey 1992 FARDE List ; Stability Test Laboratory</p> <p>1992 FBRC ; Ovens and Laboratory for Explosives</p>	
<p>PHOTOGRAPHY HISTORIC</p>		<p>PHOTOGRAPHY RCHME 1) 206/F/29 From South West</p>	
<p>RELATIONSHIPS WITH OTHER MONUMENTS</p> <p>ASSOCIATED WITH: L186, L198</p>			
<p>CONDITION Good</p>			
<p>DESCRIPTION</p> <p>1) CONSTRUCTIONAL MATERIAL Brick</p> <p>2) ROOF MATERIALS AND STRUCTURE Flat concrete slab with felt covering</p> <p>3) POWER SOURCE Steam Electricity</p> <p>4) DIMENSIONS i) L 11.0 ii) W 6.65 iii) HT 3.3</p> <p>5) The building is single storeyed with a rectangular ground plan. On the east and west elevations are a single door and two metal framed windows and on the north elevation are three metal framed windows. On the south elevation are two single doors and access into a heating maintainance chamber. A lightning conductor is attached to the building.</p>			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER L192	OLD SERIES	RCHME NUMBER	N.G.R. TL 37752 01345
NAME/FUNCTION Locker Magazine		START DATE 1954	END DATE
NO PHOTOGRAPHY AVAILABLE			
<p>CARTOGRAPHIC DEPICTION</p> <p>c1960 WASC 900/94 ; L192 c1963 WASC 900/97 ; L192 1972 WASC 900/102 ; L192 1972 WASC 900/104 ; L192 1976 WASC 900/113 ; L192</p>		<p>DOCUMENTARY REFERENCES</p> <p>Plans; L192 B01 - B03 ; Plans and Elevations 1954 to 1983</p> <p>1972 ERDE List ; Locker Magazine 1991 Mott McDonald survey 1992 RARDE List ; Locker Magazine</p> <p>1992 FBRC ; Class 1 Explosives</p>	
<p>PHOTOGRAPHY HISTORIC</p>		<p>PHOTOGRAPHY RCHME</p> <p>1) 206/G/33 From South East</p>	
<p>RELATIONSHIPS WITH OTHER MONUMENTS</p> <p>ASSOCIATED WITH: L188, L146?</p>			
<p>CONDITION Good</p>			
<p>DESCRIPTION</p> <p>1) CONSTRUCTIONAL MATERIAL Brick in English bond</p> <p>2) ROOF MATERIALS AND STRUCTURE Corrugated Asbestos</p> <p>3) POWER SOURCE Steam Electricity</p> <p>4) DIMENSIONS i) L 13.43 ii) W 2.6 iii) HT Gable 2.9</p> <p>5) The locker magazine is a single storey building rectangular in plan with gabled ends west and east. The magazine is entered through two red painted doors on the south elevation. Internally are five metal lockers numbered '7-12', each locker is earthed. A wooden shelf runs along the North wall. The temperature in the magazine was maintained by steam and electric heating.</p>			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER L193	OLD SERIES	RCHME NUMBER	N.G.R. TL 37782 01235
NAME/FUNCTION Locker Magazine		START DATE 1954	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION c1960 WASC 900/94 ; L193 c1963 WASC 900/97 ; L193 1972 WASC 900/102 ; L193 1972 WASC 900/104 ; L193 1976 WASC 900/113 ; L193		DOCUMENTARY REFERENCES Plan; L193 B01 - 24/8/1983 ; Electrical Heating Layout 1972 ERDE List ; Locker Magazine 1991 Mott McDonald survey 1992 RARDE List ; Locker Magazine	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME 1) 206/G/27 From South	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: L151, L152			
CONDITION Good			
DESCRIPTION 1) CONSTRUCTIONAL MATERIAL Brick 2) ROOF MATERIALS AND STRUCTURE Corrugated Asbestos 3) POWER SOURCE Steam Electricity 4) DIMENSIONS i) L 8.32 ii) W 2.59 iii) HT 3.0 5) The magazine is single storeyed and is rectangular in plan. It has gabled ends north and south. It was entered through two doors on the west side. Internally are three metal explosive lockers numbered '28A-C'. There is a wooden shelf along the east wall and below this heating pipes.			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER L194	OLD SERIES	RCHME NUMBER	N.G.R. TL 37705 01420
NAME/FUNCTION Locker magazine Chemical Store		START DATE 1954	END DATE 198?
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION c1960 WASC 900/94 ; L194 c1963 WASC 900/97 ; L194 1972 WASC 900/102 ; L194 1972 WASC 900/104 ; L194 1976 WASC 900/113 ; L194		DOCUMENTARY REFERENCES 1972 ERDE List ; Locker Magazine 1991 Mott McDonald survey 1992 FARDE List ; Chemical Store 1992 FBRC ; Chemical Store	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME 1) 206/G/37 From South West	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: L134, L137, L166			
CONDITION Fair			
DESCRIPTION 1) CONSTRUCTIONAL MATERIAL Brick 2) ROOF MATERIALS AND STRUCTURE Corrugated Asbestos and Translucent Plastic 3) POWER SOURCE Steam Electricity 4) DIMENSIONS i) L 8.33 ii) W 2.6 iii) HT Gable 2.85 5) The building is single storeyed with a rectangular ground plan, it has gabled ends north and south. The magazine was entered through two doors to the west. The conversion of the magazine into a store has entailed the removal of the metal lockers and the insertion of a number of translucent roof panels.			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER L195	OLD SERIES	RCHME NUMBER	N.G.R. TL 37670 01550
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NAME/FUNCTION Locker Magazine	START DATE 1955	END DATE 198?
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NO PHOTOGRAPHY
AVAILABLE

<p>CARTOGRAPHIC DEPICTION</p> <p>c1960 WASC 900/94 ; L195 c1963 WASC 900/97 ; L195 1972 WASC 900/102 ; L195 1972 WASC 900/104 ; L195 1976 WASC 900/113 ; L195</p>	<p>DOCUMENTARY REFERENCES</p> <p>Plan; L195 B01 - 9/8/1955 ; New single Locker Magazine</p> <p>1972 ERDE List ; Locker Magazine 1991 Mott McDonald survey 1992 RARDE List ; Locker Magazine</p>
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<p>PHOTOGRAPHY HISTORIC</p>	<p>PHOTOGRAPHY RCHME</p> <p>1) 206/B/35 From South East</p>
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RELATIONSHIPS WITH OTHER MONUMENTS

ASSOCIATED WITH: L187⁹

CONDITION Fair

DESCRIPTION

- 1) CONSTRUCTIONAL MATERIAL
Brick
- 2) ROOF MATERIALS AND STRUCTURE
To the North Corrugated Plastic, to the South Corrugated Asbestos
- 3) POWER SOURCE
Electricity
- 4) DIMENSIONS i) L 4.95 ii) W 3.85 iii) HT 2.7
- 5) The magazine is a single storey building with a rectangular ground plan, it has gabled ends east and west. On the eastern elevation is a double louvred door providing access to the southern room. A door on the north wall provides access onto the north room a sign on the door reads 'Explosives Locker'.

The magazine served firing point L189.

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
NUMBER L196	OLD SERIES	RCHME NUMBER	N.G.R. TL 37589 01389
NAME/FUNCTION Acid Store Locker Magazine		START DATE 1954	END DATE 198?
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
c1960	WASC 900/94 ; L196	Plan;	
c1963	WASC 900/97 ; L196	L196	B01 - 24/12/1954 ; Acid Store for Main Laboratory
1972	WASC 900/102 ; L196		
1972	WASC 900/104 ; L196	1972	ERDE List ; Acid Store
1976	WASC 900/113 ; L196	1991	Mott McDonald survey
		1992	RARDE List ; Locker Magazine
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
			1) 206/C/1 From South West
RELATIONSHIPS WITH OTHER MONUMENTS			
ASSOCIATED WITH: L122			
CONDITION	Good		
DESCRIPTION			
1)	CONSTRUCTIONAL MATERIAL Brick in English bond		
2)	ROOF MATERIALS AND STRUCTURE Concrete slab		
3)	POWER SOURCE Electricity		
4)	DIMENSIONS i) L 2.75 ii) W 2.44 iii) HT 2.55		
5)	The magazine is a single storeyed and almost square in plan. It was entered from a single door on the west side, there is a single small window on the north elevation. Internally are concrete shelves the floor is tiled.		

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER L197	OLD SERIES 9	RCHME NUMBER	N.G.R. TL 37833 01186
NAME/FUNCTION Air Raid Shelter Store		START DATE 1942?	END DATE 1945
NO PHOTOGRAPHY AVAILABLE			
<p>CARTOGRAPHIC DEPICTION</p> <p>> 1940 WASC 900/91A ; L197 1954 A - B.34 ; L197 c1960 WASC 900/94 ; L197 c1963 WASC 900/97 ; L197 1972 WASC 900/102 ; L197 1972 WASC 900/104 ; L197 1976 WASC 900/113 ; L197</p>		<p>DOCUMENTARY REFERENCES</p> <p>Plan; L197 B01 - 11/12/47 ; Pipe Trench & Drainage</p> <p>1972 ERDE List ; Store/Air Raid Shelter semi cylindrical 1991 Mott McDonald survey 1992 FARDE List ; Store/Air Raid Shelter semi cylindrical</p>	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
<p>RELATIONSHIPS WITH OTHER MONUMENTS</p> <p>ASSOCIATED WITH:</p>			
CONDITION Demolished			
<p>DESCRIPTION</p> <p>1) CONSTRUCTIONAL MATERIAL Concrete</p> <p>3) POWER SOURCE Electricity</p> <p>4) DIMENSIONS i) L 9.12 ii) W 3.8</p> <p>5) The building has been demolished a concrete floor slab remains.</p> <p>This building is presumed to have been identical in form to H11 and RCHME 167</p>			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER L198	OLD SERIES	RCHME NUMBER	N.G.R. TL 37644 01334
NAME/FUNCTION Stability Laboratory		START DATE 1956	END DATE 198?
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
c1960	WASC 900/94 ; L198	Plans;	
c1963	WASC 900/97 ; L198	L198	B01 - B17 ; Plans and Elevations 1956 to 1982
1972	WASC 900/102 ; L198		
1972	WASC 900/104 ; L198	1972	ERDE List ; Laboratory
1976	WASC 900/113 ; L198	1991	Mott McDonald survey
		1992	RARDE List ; Laboratory
		1992	FBRC ; Class 1 Explosives
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
		1) 206/F/28 From South West	
RELATIONSHIPS WITH OTHER MONUMENTS			
ASSOCIATED WITH: L191			
CONDITION	Good		
DESCRIPTION			
1)	CONSTRUCTIONAL MATERIAL Brick		
2)	ROOF MATERIALS AND STRUCTURE Flat concrete with felt covering and raised roof lights		
3)	POWER SOURCE Steam Electricity		
4)	DIMENSIONS i) L 9.2 ii) W 10.7 iii) HT 2.95		
5)	The building is a single storey with a rectangular plan. The east and west elevations of the building are featureless in the north elevation is a single door. To the south are double glass doors giving access into a central court surrounded by laboratory benches lit by raised roof lights. Attached to the east and west walls of the building are two tall poles of a lightning conductor connected by wire at their tops.		

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER L199	OLD SERIES	RCHME NUMBER	N.G.R. TL 37664 01592
NAME/FUNCTION Proof Stand		START DATE 1959	END DATE 198?
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
c1960	WASC 900/94 ; L199	Plans;	
c1963	WASC 900/97 ; L199	L199	B01 - B10 ; Plans and Elevations 1956 to 1975
1972	WASC 900/102 ; L199	1972	ERDE List ; Small Sensitivity
1972	WASC 900/104 ; L199	1991	Mott McDonald survey
1976	WASC 900/113 ; L199	1992	FARDE List ; Proof Stand
		1992	FBRC ; Firing Chamber
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
		1)206/L/12 From South	
RELATIONSHIPS WITH OTHER MONUMENTS			
ASSOCIATED WITH: L189, L195			
CONDITION Fair			
DESCRIPTION			
1)	CONSTRUCTIONAL MATERIAL Concrete, steel girders, corrugated iron		
2)	ROOF MATERIALS AND STRUCTURE -		
3)	POWER SOURCE Electricity		
4)	DIMENSIONS i) L ii) W iii) HT		
5)	The proof stand is a single storeyed structure almost square in plan although with protruding walls. The southern elevation of the stand is of concrete and has a single staggered entrance. The central firing chamber is constructed from steel girders and plates and corrugated iron.		

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER	OLD SERIES 96	RCHME NUMBER	N.G.R. TL 37536 01780
NAME/FUNCTION Box house Dining room Washing up house		START DATE 1861	END DATE

NO PHOTOGRAPHY
AVAILABLE

CARTOGRAPHIC DEPICTION	DOCUMENTARY REFERENCES
<p>1865 WASC 900/38 + SUPP5 975 ; Box House</p> <p>1865 WASC 900/41A ; Box House</p> <p>1865 WASC 900/42 ; Box House</p> <p>1897 WASC 900/53C</p> <p>c1910 WASC 900/65 ; Dining Room</p> <p>c1910 WASC 900/79 ; Dining Room</p> <p>1917 WASC 900/70</p> <p>1917 WASC 900/72 ; 96</p> <p>1919 WASC 900/74 ; 96</p> <p>c1920 WASC 900/80 ; 96</p> <p>1923 WASC 900/84 ; 96</p> <p>> 1940 WASC 900/91A ; 96</p> <p>1954 A - B.34 ; 96</p> <p>c1960 WASC 900/94 ; 96</p> <p>c1963 WASC 900/97 ; 96</p> <p>1972 WASC 900/102 ; 96</p> <p>1972 WASC 900/104 ; 96</p> <p>1976 WASC 900/113 ; 96</p>	<p>Plans;</p> <p>96 B01,B02 ; Plans and Elevations 1861,1871</p> <p>1908 RGPF Ledger WASC 1509 + WASC 1764 ; Dining Room built 1861 p9</p> <p>c1925 RGPF Ledger WASC 1680 ; Dining Room</p> <p>c1945 RGPF Ledger WASC 1508 ; Dining Room</p> <p>1992 RARDE List ; Dining House</p> <p><i>Site Photog.</i></p>

PHOTOGRAPHY HISTORIC	PHOTOGRAPHY RCHME
	<p>1) 206/J/5 From east</p> <p>206/J/6 Detail of window showing blackout shutters</p> <p>206/J/7 From North</p> <p>206/J/8 Detail of window</p> <p>206/R/24 From east</p> <p>206/R/25 North elevation from east</p>

RELATIONSHIPS WITH OTHER MONUMENTS
ASSOCIATED WITH:

CONDITION	Poor
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DESCRIPTION

1) CONSTRUCTIONAL MATERIAL
Brick

2) ROOF MATERIALS AND STRUCTURE
Hipped, roofing felt over timber boards

3) POWER SOURCE
Steam heating and electricity

4) DIMENSIONS i) L 17.1m ii) W 7.7m iii) HT eave 3m

5) The dining room is a single storey building with a hipped roof. A number of additions have been made to the original core of the building. A brick lobby has been added to the eastern end. A timber framed outshot covered by asbestos sheeting attached to the northern wall probably dates from the second world war. Within this room a series of pigeon holes still retained address cards to other explosives factories and a pocket calendar from 1944. All the window openings were protected by canvas blackout shutters.

Originally the building was heated by a number of fireplaces subsequently blocked. In its last phase the building was steam heated, the pipe was attached to the northern wall along with a pressure guage 0-100lbs/sqin.

Historic artefacts - Contraband box near east end, pressure guage on north wall, other items may survive within the building.

*Cleaned out leaving collapsing roof supported by props.
Collection of artefacts stored in L168.*

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER	OLD SERIES	RCHME NUMBER	N.G.R.
103	L102, L103 ?		TL 37675 01700
NAME/FUNCTION	START DATE	END DATE	
Corning House No.2 ? 97, 98 RCHME 114	1806-19	1819	
Press House No.2	c1850		
Press House No.1	by 1923	c1941	
<p>NO PHOTOGRAPHY AVAILABLE</p> <p><i>Other Hydraulic</i> <i>See also Morrison</i> <i>Red GC Drying Stones</i> <i>74-98 Old 76</i> <i>Press Ho No 4 531</i></p>			
CARTOGRAPHIC DEPICTION	DOCUMENTARY REFERENCES		
<p>1806 WO78/1352</p> <p>1827 WASC 900/04 + MPHH 271 ; site of Former Corning House powered by Horses</p> <p>1830 PRO MP11.15 Drayson; Site of No.2 Corning House</p> <p>1830 WO55 2694</p> <p>1830 WASC 900/05</p> <p>c1830 WASC 900/06</p> <p>c1835 WASC 900/07</p> <p>1861-1868 WASC 900/10A</p> <p>1865 WASC 900/13</p> <p>1865 WASC 900/14</p> <p>1865 WASC 900/38 + SUPP5 975 ; Washing up House and Press House</p> <p>1865 WASC 900/41A ; Washing up House and Press House</p> <p>1865 WASC 900/42</p> <p>1897 WASC 900/53C</p> <p>c1910 WASC 900/65 ; Press House</p> <p>c1910 WASC 900/79 ; Press House</p> <p>1917 WASC 900/70 ; Pump and Press House</p> <p>1917 WASC 900/72 ; 103,104</p> <p>1919 WASC 900/74 ; 103,104</p> <p>c1920 WASC 900/80 ; 103</p> <p>1923 WASC 900/84 ; 103</p> <p>> 1940 WASC 900/91A ; 103</p> <p>1954 A - B.34 ; L102, L103</p> <p>c1960 WASC 900/94 ; L102, L103</p> <p>c1963 WASC 900/97 ; L102, L103</p> <p>1972 WASC 900/102 ; L102, L103</p> <p>1972 WASC 900/104</p> <p>1976 WASC 900/113</p>	<p>Plans; L102,L103 B01,B02 ; Plans and Elevations c1894</p> <p><i>107 - Moulding Ho No 4</i> <i>In this book</i></p> <p>1807 Statement of Property WO55 2694</p> <p>1819 'Mr Philpot, of Stanford Street purchased at the late sale of Ordnance property all the Corning Houses, Press Houses etc.....Mr Philpot offers £50 for the machinery of Nos 2 and 3 Corning Houses, which cost the Board £9000. In good state of preservation' Winters 1887 p86</p> <p>1830 Statement of Property WO55 2351</p> <p>1841 Statement of Property WO55 2856</p> <p>1851 Statement of Property WO55 3027</p> <p>1857 Baddeley p14-15 Pressing the Meal by Hydraulic Press. 'The pumps are now set in motion by a water wheel' Baddeley p15</p> <p>1908 RGPF Ledger WASC 1509 + WASC 1764 ; Gunpowder Press House built 1870 p10</p> <p>c1925 RGPF Ledger WASC 1680 ; Gunpowder Press House</p> <p>c1945 RGPF Ledger WASC 1508 ; Gunpowder Press House</p> <p>1972 ERDE List ; Pump House</p> <p>1991 Mott McDonald survey</p> <p>1992 RARDE List ; Pump House</p> <p><i>Site of the factory</i> <i>Mod Drawings.</i></p>		

PHOTOGRAPHY

HISTORIC

WASC 788 GP press house No1 1972 x2
WASC 789 GP press house No1 1940 x10
WASC 1517 Gen views 05.1986 x3
WASC 1543/1-4 Views of Gunpowder press house
WASC 1543/10 Traverse wall
WASC 1655/58-65 No 1 press house July 1940
WASC 1543/5-9 Gunpowder press house water wheel
PRO Supply 5/863 290-1, 294-6, 299 July 1940

PHOTOGRAPHY

RCHME

- 1) 206/U/21 From west
206/U/22 From west
206/U/23 From north west
206/F/16 29 Jan 1993 Gunpowder press from West
206/F/17 29 Jan 1993 Water wheel for Hydraulic pump from South West
206/F/18 29 Jan 1993 Hydraulic gunpowder press from South
206/F/19 29 Jan 1993 Danger Building electric light
206/L/36 09 Mar 1993 Danger Building Electric light
206/L/37 09 Mar 1993 Gunpowder Press from West
206/N/24 12 Mar 1993 Press house from South
- 2) BB92/26197 103 & 104 Water Wheel House and Hydraulic Gunpowder Press, view from West.
BB92/26198 104 Water Wheel House for Hydraulic Pump, view from South West.
BB92/26199 104 Pit Wheel view from North East.
BB92/26200 104 Hydraulic Pump view from North East.
BB92/26201 104 Detail of Water Wheel to Hydraulic Pump view from West.
BB92/26202 103 Hydraulic Gunpowder Press view from South East.

3) Site Photog.

RELATIONSHIPS WITH OTHER MONUMENTS

ASSOCIATED WITH: 103/1, 104

CONDITION Fair

DESCRIPTION

- 1) CONSTRUCTIONAL MATERIAL
Brick formerly carrying a timber frame
- 2) ROOF MATERIALS AND STRUCTURE
-
- 3) POWER SOURCE
Waterwheel powering a hydraulic pump, latterly supported by an electric motor and pump, electric lighting
- 4) DIMENSIONS i) L 8.9m ii) W 7.1
- 5) The gunpowder press house was fired probably during the 1940s. The below floor brick foundations, in English bond, survive to their full height. The foundations are divided into three cells, the northern and southern cells are 2.1m in width and the central cell is 2m in width.

In the centre of the building are the substantial remains of the gunpowder press. The process is first described by Baddeley in Pamphlet on the Manufacture of Gunpowder 1857. A similar press is illustrated and described Smith F M 1871 A Handbook of the Manufacture and Proof of Gunpowder 45-49 and Wardell W H 1888 Handbook of Gunpowder and Guncotton 49-50, although the press is of a slightly different design. Oscar Guttman 1895 in The Manufacture of Explosives however illustrates a press that appears to be identical to the one remaining insitu.

Scattered around the building are fragments of slate upto 1cm in thickness some of which retain brass screws. Also lying loose in the building was a danger building light formerly attached to the outside of the window (similar to the one illustrated in Proc Inst Civil Engrs V.110 1891 p373). These lights are clearly visible in the photographs in Supply 5/863.

Historic Artifacts- a considerable number of fittings relating to this building survive on the surface. Archaeological advice should be sort about its recording and recovery. During clearance work in the canal basin to the west of the press house copper press plates and the iron gearing to the pebble powder cutting machine were found along with a copper chisel and other smaller artefacts. Nb further deposits containing important artefacts may still remain in this canal basin.

*Subsequent scrapes proved fruitless.
Interior of Press house excavated Jan 25. Much slate, some
copper nails/screws. Part of a wheel and other miscellaneous
material. Stored in L168.*

Danger Light transported and stored in L168.

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER	OLD SERIES 103/1	RCHME NUMBER	N.G.R. TL 37675 01693
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NAME/FUNCTION Traverse	START DATE 1806-18	END DATE
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NO PHOTOGRAPHY
AVAILABLE

<p>CARTOGRAPHIC DEPICTION</p> <p>1827 WASC 900/04 + MPH 271 1830 WO55 2694 1830 WASC 900/05 c1830 WASC 900/06 c1835 WASC 900/07 1861-1868 WASC 900/10A 1865 WASC 900/13 1865 WASC 900/14 1871 SUPP5 682 1865 WASC 900/38 + SUPP5 975 1865 WASC 900/41A 1865 WASC 900/42 1897 WASC 900/53C c1910 WASC 900/65 c1910 WASC 900/79 1917 WASC 900/70 1917 WASC 900/72 1919 WASC 900/74 c1920 WASC 900/80 1923 WASC 900/84 > 1940 WASC 900/91A 1954 A - B.34 c1960 WASC 900/94 c1963 WASC 900/97 1972 WASC 900/102 1972 WASC 900/104 1976 WASC 900/113</p>	<p>DOCUMENTARY REFERENCES</p> <p>Plans; L102 B01,B02 ; Plans and Elevations 1894</p> <p>1908 RGPF Ledger WASC 1509 + WASC 1764 ; Traverse built 1870 p10</p> <p>c1925 RGPF Ledger WASC 1680 ; Traverse c1945 RGPF Ledger WASC 1508 ; Traverse</p>
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PHOTOGRAPHY HISTORIC	PHOTOGRAPHY RCHME See 103 and 104
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<p>RELATIONSHIPS WITH OTHER MONUMENTS</p> <p>ASSOCIATED WITH: 103, 104</p>

CONDITION Fair

DESCRIPTION

1) CONSTRUCTIONAL MATERIAL
Brick

2) ROOF MATERIALS AND STRUCTURE

3) POWER SOURCE
None

4) DIMENSIONS i) L 14.5m ii) W 4.6m iii) HT estimate 6m

5) The traverse is oval in shape and is constructed with battered brick walls which are in part cement rendered. No indication is present of the interior filling of the traverse.

The traverse appears to have been constructed during the first years of the nineteenth century. It was originally associated with a gunpowder corning mill that then fell into disuse. Around 1850 the mill site was reused for the siting of a water powered hydraulic pump 104 and a gunpowder press 103.

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER	OLD SERIES	RCHME NUMBER	N.G.R.
104	L102, L103		TL 37675 01700
NAME/FUNCTION		START DATE	END DATE
Corning House No.2		1806-18	1819
Pump house for Press House No.2		c1850	by 1923
Pump house for Press House No.1		by 1923	1941
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
1827	WASC 900/04 + MPH 271 ; site of Former Corning House powered by Horses	Plans; L102,L103	B01,B02 ; Plans and Elevations c1894
1830	PRO MP11.15 Drayson Site of Corning House No.2		
1830	WO55 2694	1807	Statement of Property WO55 2694
1830	WASC 900/05	1830	Statement of Property WO55 2351
c1830	WASC 900/06	1841	Statement of Property WO55 2856
c1835	WASC 900/07	1851	Statement of Property WO55 3027
1861-1868	WASC 900/10A	1857	Baddeley Pressing the Meal by the Hydraulic Press p14-15
1865	WASC 900/13	1908	RGPF Ledger WASC 1509 + WASC 1764 ; Gunpowder Press House built 1870 p10
1865	WASC 900/14	c1925	RGPF Ledger WASC 1680 ; Gunpowder Press House
1865	WASC 900/38 + SUPP5 975 ; Washing up House and Press House	c1945	RGPF Ledger WASC 1508 ; Gunpowder Press House
1865	WASC 900/41A ; Washing up House and Press House		
1865	WASC 900/42	1972	ERDE List ; Pump House
1897	WASC 900/53C	1991	Mott McDonald survey
c1910	WASC 900/65 ; Press House	1992	RARDE List ; Pump House
c1910	WASC 900/79 ; Press House		
1917	WASC 900/70 ; Pump and Press House		
1917	WASC 900/72 ; 103,104		
1919	WASC 900/74 ; 103,104		
c1920	WASC 900/80 ; 103		
1923	WASC 900/84 ; 103		
> 1940	WASC 900/91A ; 103		
1954	A - B.34 ; L102, L103		
c1960	WASC 900/94 ; L102, L103		
c1963	WASC 900/97 ; L102, L103		
1972	WASC 900/102 ; L102, L103		
1972	WASC 900/104		
1976	WASC 900/113		

PHOTOGRAPHY
HISTORIC

WASC 788 GP press house No1 1972 x2
WASC 789 GP press house No1 1940 x10
WASC 1517 Gen views 05.1986 x3
WASC 1543/1-4 Views of Gunpowder press house
WASC 1543/10 Traverse wall
WASC 1655/58-65 No 1 press house July 1940
WASC 1543/5-9 Gunpowder press house water wheel
PRO Supply 5/863 297 Shows starting mechanism near
fly wheel
PRO Supply 5/863 298 Detail of pump and interior

PHOTOGRAPHY
RCHME

- 1) 206/U/21 From west
206/U/22 From west
206/U/23 From north west
206/F/16 29 Jan 1993 Gunpowder press from West
206/F/17 29 Jan 1993 Water wheel for Hydraulic
pump from South West
206/F/18 29 Jan 1993 Hydraulic gunpowder press
from South
206/F/19 29 Jan 1993 Danger Building electric light
206/L/36 09 Mar 1993 Danger Building Electric light
206/L/37 09 Mar 1993 Gunpowder Press from West
206/N/24 12 Mar 1993 Press house from South
- 2) BB92/26197 103 & 104 Water Wheel House and
Hydraulic Gunpowder Press, view from West.
BB92/26198 104 Water Wheel House for Hydraulic
Pump, view from South West.
BB92/26199 104 Pit Wheel view from North East.
BB92/26200 104 Hydraulic Pump view from North
East.
BB92/26201 104 Detail of Water Wheel to Hydraulic
Pump view from West.
BB92/26202 103 Hydraulic Gunpowder Press view
from South East.

Site Photog.

RELATIONSHIPS WITH OTHER MONUMENTS

ASSOCIATED WITH: 103/1, 103

CONDITION Fair

DESCRIPTION

- 1) CONSTRUCTIONAL MATERIAL
Brick

- 2) ROOF MATERIALS AND STRUCTURE

The roof is barrel shaped, formed from corrugated iron (possibly of nineteenth century date) fixed to L irons running along the top of the wall and braced by two horizontal tension rods.

- 3) POWER SOURCE

Water powering a hydraulic pump latterly supplemented by an electric pump. Electric lighting probably of late nineteenth century date.

- 4) DIMENSIONS i) L 9.55m ii) W 5.35 iii) HT estimate 7.5m

- 5) The pump house is a single storey brick building, painted in small figures on its exterior is its former number L103. The pump house is divided into two cells the larger eastern cell 5.75m x 4.45m and smaller western cell 2.45m x 4.45m.

The smaller cell was originally a shoe room and was entered from the canal side through a single door and was lit by a single window. The room was originally timber lined, the positions of charred fixing timbers may be made out on the wall. Artificial lighting was originally supplied by a danger building light suspended on the outside of the window. The upper part of the light some of the iron pipe that encased the wiring survives fixed to the exterior of the building. This room was subsequently converted to house an electrically powered hydraulic pump to supplement the water wheel. The sandstone base and four mounting bolts to this pump survive. Pipes running at floor level from this room to the pump room are thought to be the remains of the steam heating system.

The larger cell housed the water powered hydraulic pump. This room was entered from the shoe room originally across a fender (L.102.B.02), defining a dirty and clean area, and through a door on the north east corner. The room was lit by a single window in the eastern gable. In the centre of the room are the largely intact remains of the water driven hydraulic pump. This is believed to be the only surviving water wheel driven pump in England. Horizontal holes in the wall mark the former positions of timbers to which a wall covering was fixed.

The water driven hydraulic pump was powered by a water wheel on the southern side of the building. The water to turn the wheel was brought along a canal from Millhead Stream RCHME 294 through the wheel before tipping into the tail race and into the old River Lee. The wheel is a low breast shot of cast iron construction. This was formerly covered by a corrugated iron roof.

Above the tailrace the brickwork is supported by sheets of thick slate this inturn supported a toilet cubicle.

Historic Artefacts: All fittings, corrugated iron roof may be of nineteenth century date and further advice ought to be sort.

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER	OLD SERIES 105	RCHME NUMBER	N.G.R. TL 37545 01660
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NAME/FUNCTION Press House Magazine	START DATE 1807-27	END DATE 194?
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NO PHOTOGRAPHY
AVAILABLE

CARTOGRAPHIC DEPICTION	DOCUMENTARY REFERENCES
1806 WO78/1352	1830 WO55/2694; 140 Receiving Magazine
1827 WASC 900/04 + MPH 271	1841 WO55/2856; 140 Receiving Magazine
1830 WO55 2694	1851 WO55/3027
1830 WASC 900/05	1908 RGPF Ledger WASC 1509 + WASC 1764 ; Press House Magazine built pre 1870 p11
c1830 WASC 900/06	c1925 RGPF Ledger WASC 1680 ; Press House Magazine
c1835 WASC 900/07	c1945 RGPF Ledger WASC 1508 ; Press House Magazine
1861-1868 WASC 900/10A	
1865 WASC 900/13	
1865 WASC 900/14	
1871 SUPP5 682	
1865 WASC 900/38 + SUPP5 975 ; Press House Magazine	
1865 WASC 900/41A ; Press House Magazine	
1865 WASC 900/42 ; Press House Magazine	
1897 WASC 900/53C	
c1910 WASC 900/65	
c1910 WASC 900/79	
1917 WASC 900/70	
1917 WASC 900/72 ; 105	
1919 WASC 900/74 ; 105	
c1920 WASC 900/80 ; 105	
1923 WASC 900/84 ; 105	
> 1940 WASC 900/91A ; 105	
1954 A - B.34	
c1960 WASC 900/94	
c1963 WASC 900/97	
1972 WASC 900/102	
1972 WASC 900/104	
1976 WASC 900/113	

PHOTOGRAPHY HISTORIC	PHOTOGRAPHY RCHME <i>Site Photog-</i>
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RELATIONSHIPS WITH OTHER MONUMENTS

ASSOCIATED WITH: 106, 107, 108

CONDITION Demolished

DESCRIPTION

5) No surface remains are visible. The survival of the foundations of the brick footings of 106 adjacent to this magazine may imply a below ground survival.

*Remains uncovered May 1995.
Small magazine with thick walls and porch to edge of
timber revetted canal RCHME 294:
Fill of foundations removed + back filled with ballast*

Subject REMAINS OF MAGAZINE 105 +106

To **Graham Vincent**

Date 19th July 1995

From **Bob Watts**
Ref **E5275/62/1/01**

Graham,

Please complete removal of deposits in foundations. When complete fill with approximately 300mm thick ballast.

Regards

BOB WATTS.

Copy:- **Steve Chaddock**

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER	OLD SERIES 106	RCHME NUMBER	N.G.R. TL 37535 01656
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NAME/FUNCTION Press House Magazine	START DATE 1865-70	END DATE 194?
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NO PHOTOGRAPHY
AVAILABLE

<p>CARTOGRAPHIC DEPICTION</p> <p>1865 WASC 900/38 + SUPP5 975 ; Press House Magazines 1865 WASC 900/41A ; Press House Magazines 1865 WASC 900/42 ; Press House Magazines 1897 WASC 900/53C c1910 WASC 900/65 ; Receiving Magazines c1910 WASC 900/79 1917 WASC 900/70 1917 WASC 900/72 ; 106 1919 WASC 900/74 ; 106 c1920 WASC 900/80 ; 106 1923 WASC 900/84 ; 106 > 1940 WASC 900/91A ; 106 1954 A - B.34 c1960 WASC 900/94 c1963 WASC 900/97 1972 WASC 900/102 1972 WASC 900/104 1976 WASC 900/113</p>	<p>DOCUMENTARY REFERENCES</p> <p>1908 RGPF Ledger WASC 1509 + WASC 1764 ; Press House Magazine built pre 1870 p11 c1925 RGPF Ledger WASC 1680 ; Press House Magazine c1945 RGPF Ledger WASC 1508 ; Press House Magazine</p>
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PHOTOGRAPHY HISTORIC	PHOTOGRAPHY RCHME <i>Site Photog.</i>
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RELATIONSHIPS WITH OTHER MONUMENTS

ASSOCIATED WITH: 105, 107, 108

CONDITION Demolished

DESCRIPTION

5) The west wall and a section of the north wall of this building is visible as wall footing.

Remains uncovered May 1995. Concrete floor with asphalt covering partly intact

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER	OLD SERIES 107	RCHME NUMBER	N.G.R. TL 37482 01660
NAME/FUNCTION Moulding house No.4 Cordite blending house No.3 Blank Expense Magazine Tetryl Packing House		START DATE 1884-5 1898? 1910? 1914?	END DATE 1898? 1910? 1914? 1945?
NO PHOTOGRAPHY AVAILABLE			
<p>CARTOGRAPHIC DEPICTION</p> <p>1865 WASC 900/38 + SUPP5 975 ; Moulding House No.4</p> <p>1865 WASC 900/41A ; Moulding House No.4</p> <p>1897 WASC 900/53C</p> <p>c1900 WASC 900/42 ; No.3 Cordite Blending House</p> <p>c1910 WASC 900/65 ; Blank Expense Magazine</p> <p>c1910 WASC 900/79 ; Blank Expense Magazine</p> <p>1917 WASC 900/70 ; Blank Expense Magazine</p> <p>1917 WASC 900/72 ; 107</p> <p>1919 WASC 900/74 ; 107</p> <p>c1920 WASC 900/80 ; 107</p> <p>1923 WASC 900/84 ; 107 C.E. Packing House</p> <p>> 1940 WASC 900/91A ; 107</p> <p>1954 A - B.34 ; 107</p> <p>c1960 WASC 900/94 ; 107</p> <p>c1963 WASC 900/97 ; 107</p> <p>1972 WASC 900/102</p> <p>1972 WASC 900/104</p> <p>1976 WASC 900/113</p>		<p>DOCUMENTARY REFERENCES</p> <p>Plan;</p> <p>1884 O.107.B.02 17.06.1884</p> <p>No3 Moulding House 108 11 i place</p> <p>No4 Moulding House 1.1.107 an addition</p> <p>107 B01 - 30/4/1894 ; Moulding House No.4</p> <p>1908 RGPF Ledger WASC 1509 + WASC 1764 ; Blank Expense Magazine built 1884-5 p11</p> <p>c1925 RGPF Ledger WASC 1680 ; Blank Expense Magazine</p> <p>c1945 RGPF Ledger WASC 1508 ; Blank Expense Magazine</p> <p>1992 RARDE List ; Tetryl Packing House</p>	
<p>PHOTOGRAPHY HISTORIC</p>	<p>PHOTOGRAPHY RCHME</p> <p>1) 206/F/10 28 Jan 1993 From South East</p> <p>206/F/11 28 Jan 1993 Hydraulic Press Base from South East</p> <p>206/F/12 28 Jan 1993 Detail of Hydraulic press base</p> <p>206/F/13 28 Jan 1993 Detail of Hydraulic press base</p> <p>206/N/23 12 Mar 1993 Detail of Danger Building lighting</p> <p>206/Q/28 16 Mar 1993 From West</p> <p>206/Q/29 16 Mar 1993 From South</p> <p>2) BB92/26220 107 and 108 Moulding House view from South East.</p> <p><i>Site Photog.</i></p>		

RELATIONSHIPS WITH OTHER MONUMENTS

ASSOCIATED WITH: L102, L103, 105, 106, 108a ABUTS: 108

CONDITION Good

DESCRIPTION

- 1) CONSTRUCTIONAL MATERIAL
Cast concrete
- 2) ROOF MATERIALS AND STRUCTURE
Galvanised sheet
- 3) POWER SOURCE
(i) Hydraulic (ii) Electricity
- 4) DIMENSIONS 107 and 108 i) L 26.4m ii) W 12.8m iii) HT estimate 6m
- 5) Buildings 107 and 108 are described together

The Press houses were screened by a cast concrete E shaped traverse. Two construction phases are visible in the traverse, a near vertical joint on the north side marks where 107 abuts against 108. It is also noticeable that the concrete of 107 is more roughly finished than 108.

The press house each sat within one of the compartments, the press houses were timber framed structures set on brick foundations. In 107 the foundations measure 7.65m x 6.33m. Within the building is a large concrete block placed slightly off centre, presumably the press mounting block. In 108 the brick foundations measure 7.78m x 6.3m. Within this building in a similar off centre position is a large cast iron press base set on a concrete block. It is presumed that the press base would have been underneath the floor when the building was in operation.

The press houses were served by a canal and landing stage to the south and were served by four expense magazines L102, L103, 105 and 106. The building could also be entered through two large openings on the north wall.

NO? Hydraulic Press House

Within the building are fragments of galvanised roof sheeting and galvanised gutters. Attached to the north wall of the building are conical shaped insulators, of late nineteenth century type, and a cast iron switch box. All the wiring serving the building was encased in small bore metal pipes.

Historic Artifacts- Press base, metal building fittings

Cleaned out March 95. Some lead weights recovered.

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER	OLD SERIES 108	RCHME NUMBER	N.G.R. TL 37467 01658
NAME/FUNCTION Moulding House No.4 Cordite Blending House No.3 Tetryl Packing House No.1	START DATE 1882-3 1898? 1917?	END DATE 1898? 1917? 1945	

NO PHOTOGRAPHY
AVAILABLE

<p>CARTOGRAPHIC DEPICTION</p> <p>1865 WASC 900/38 + SUPP5 975 ; Moulding House No.4 1865 WASC 900/41A ; Moulding House No.4 1865 WASC 900/42 ; No.3 Cordite Blending House 1897 WASC 900/53C c1910 WASC 900/65 c1910 WASC 900/79 1917 WASC 900/70 1917 WASC 900/72 ; 108 1919 WASC 900/74 ; 108 c1920 WASC 900/80 ; 108 1923 WASC 900/84 ; 108 C.E Magazine > 1940 WASC 900/91A ; 108 1954 A - B.34 ; 108 c1960 WASC 900/94 ; 108 c1963 WASC 900/97 1972 WASC 900/102 1972 WASC 900/104 1976 WASC 900/113</p>	<p>DOCUMENTARY REFERENCES</p> <p>1908 RGPF Ledger WASC 1509 + WASC 1764 ; Packing House built 1884-5 p11 c1925 RGPF Ledger WASC 1680 ; Packing House c1945 RGPF Ledger WASC 1508 ; Packing House 1992 RARDE List ; Tetryl Packing House</p>
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<p>PHOTOGRAPHY HISTORIC</p>	<p>PHOTOGRAPHY RCHME</p> <p>1) 206/C/18 02 Feb 1993 Hydraulic press base 206/C/19 02 Feb 1993 Hydraulic press base 206/F/10 28 Jan 1993 From South East 206/F/11 28 Jan 1993 Hydraulic Press Base from South East 206/Q/28 16 Mar 1993 From West 206/Q/29 16 Mar 1993 From South 2) BB92/26220 107 and 108 Moulding House view from South East. BB92/26221 108 Hydraulic Press Base view from South West. <i>Site Photo.</i></p>
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RELATIONSHIPS WITH OTHER MONUMENTS

ASSOCIATED WITH: 105, 106, L102, L103, 108a ABUTTED BY: 107

CONDITION Good

DESCRIPTION

5) Described with 107

Cleaned out March 95.

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER	OLD SERIES 108a	RCHME NUMBER	N.G.R. TL 37448 01664
NAME/FUNCTION Earth closet		START DATE 1914-20	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
1919 WASC 900/74 c1920 WASC 900/80 1923 WASC 900/84 > 1940 WASC 900/91A 1954 A - B.34 c1960 WASC 900/94 c1963 WASC 900/97 1972 WASC 900/102 1972 WASC 900/104 1976 WASC 900/113		c1925 RGPF Ledger WASC 1680 ; EC c1945 RGPF Ledger WASC 1508 ; EC	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
		1) 206/F/15 28.Jan.1993 From North West	
RELATIONSHIPS WITH OTHER MONUMENTS			
ASSOCIATED WITH: 107, 108			
CONDITION		Good	
DESCRIPTION			
1) CONSTRUCTIONAL MATERIAL Brick			
2) ROOF MATERIALS AND STRUCTURE Corrugated asbestos			
3) POWER SOURCE None			
4) DIMENSIONS i) L 2.83m ii) W 1.37m iii) HT 2.25m			
5) Entrance to the earth closet was from the north, a small door at the base of the east side was used for removing the bucket.			
<i>Slate sheet attached across south and west wall corner - as bin? Cleaned out June 95.</i>			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
NUMBER	OLD SERIES 114	RCHME NUMBER 303?	N.G.R. TL 37680 01573
NAME/FUNCTION Experiment House re-erected on a new site		START DATE 1879 1903	END DATE 1903 by 1917
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION 1902 Nathan <u>Proc. Court Enquirey attending an explosion RGPF Waltham Abbey 15- Dec-1902 Map B</u> 1995 . WALD 002		DOCUMENTARY REFERENCES 1908 RGPF Ledger WASC 1509 ; p11 Experiment House built 1879 re-erected on a new site 1903 p11	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME Site Photog.	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: L106? + Tetryl contam (+ wooden structure) going south.			
CONDITION	Demolished		
DESCRIPTION 5) The experiment house was erected on this site in 1903. The building is no longer shown on any mapping after 1917. The site of the building lies beneath a dump of river gravel.			

Foundations uncovered during Feb 95. Arisings: lab. glass + rubble .
Tetryl - contamination suspected. Wooden structure found
to south. Contam. extended south westwards to go under
L195.

Subject **EXPERIMENTAL HOUSE**To **Graham Vincent**

Date 30th August 1995

From **Bob Watts**
Ref **E5275/01/1/03**

Graham,

Trench seems to have found the end of the tetryl deposit. Please:-

- i) Take sample for open space explosives analysis from trench end.
- ii) Hand dig and bag small remaining tetryl deposits on surface, in trench and spillages. All arisings to Burning Ground.
- iii) Machine scrape surface of pit adjacent L195. All arisings to Burning Ground.
- iv) Dumper away remaining muck to clean stockpile.
- v) Fill pit and trench with terram and stone recovered from previously stripped H Area stone roads. Clay inclusions not a problem.

Regards

BOB WATTS.

Copy:- 69/1/01

Steve Chaddock.

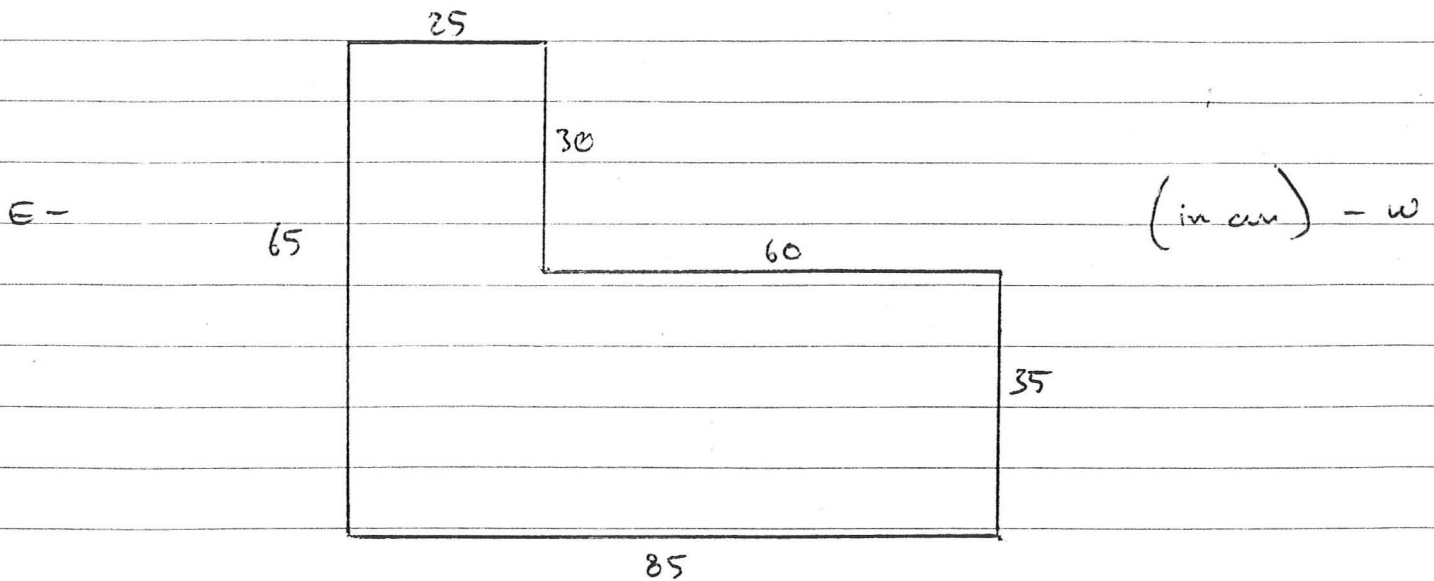
TIME 303

EXPERIMENTAL HOUSE

Details - in conjunction with drawing no. WAUD 002

- ① All external walls are constructed of soft yellow stocks in English bond and are approximately 36cm wide. They are set onto a concrete base (foundations?) well below the level of the general central concrete slab. The base of the walls have two rows of headers, each outset ca. 6cm, making a total basal width of ca. 48cm. The existing top of the walls are generally at the same elevation as the central concrete slab.
- ② Metal pipe ca. 4 cm in diameter, and of which ca. 1m is exposed above the ground surface; the remainder angles sharply into the ground.
- ③ The walls of the internal 'room' are ca. 23-25 cm wide. Some brick imprints exist, set into a 1.5cm thick mortar base constructed directly onto the concrete slab.
- ④ The lateral wall is ca. 36 cm wide; one course of soft yellow stocks, English bonded (from mortar imprints), remains on the mortar base.
- ⑤ The internal linear walls are ca. 22-25 cm wide. The mortar base is visible in patches, as are some brick imprints, but other than the fact that they were constructed in soft yellow stocks little else can be said.

(The large western external concrete block has the following approximate dimensions in section:



There are four (ca. ~~12~~ 12 cm wide) lateral bench walls set in coarse mortar, spaced evenly across the length of the block.

(7) With the exception of the three 'pits' a concrete foundation underlies the entire building. This has been cut away between the remaining sections of external wall, possibly in the same episode of removal.

(8) There is no evidence of doorways in the internal or external walls, though this is unsurprising given their state of preservation.

(9) The 'pit' to the south of the medial lateral wall contains a large concrete block, approx. 110 x 230 cm x uncertain.

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
NUMBER	OLD SERIES	RCHME NUMBER 167	N.G.R. TL 37705 01682
NAME/FUNCTION Building		START DATE 1940?	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME <i>Site Photog.</i>	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH:			
CONDITION	Fair		
<p>DESCRIPTION</p> <p>1) CONSTRUCTIONAL MATERIAL Cast concrete</p> <p>2) ROOF MATERIALS AND STRUCTURE Concrete</p> <p>3) POWER SOURCE None?</p> <p>4) DIMENSIONS i) L 9.2m ii) W 4m iii) HT 2.35m</p> <p>5) Semi-circular concrete shelter, cast over corrugated iron sheeting. The shelter was formerly entered through double doors on the south side and a single door on the north side. The north side is screened by a timber traverse packed with earth, length 4.11m, width 1.2m, height 2.05m, a painted sign reads 'No 4'.</p> <p>This is identical in form to H11 & L197 structure.</p> <p>Historic Artifacts- hand cranked air raid siren on the north wall.</p> <p><i>Southern end has two toilet cubicles in outline to the west side.</i></p>			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER	OLD SERIES	RCHME NUMBER 178	N.G.R. TL 37532 01656
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NAME/FUNCTION Sentry box	START DATE	END DATE
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NO PHOTOGRAPHY
AVAILABLE

CARTOGRAPHIC DEPICTION	DOCUMENTARY REFERENCES
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PHOTOGRAPHY HISTORIC	PHOTOGRAPHY RCHME
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RELATIONSHIPS WITH OTHER MONUMENTS

ASSOCIATED WITH: Burning ground

CONDITION Good?

DESCRIPTION

- 1) CONSTRUCTIONAL MATERIAL
 Brick
- 2) ROOF MATERIALS AND STRUCTURE
 Corrugated asbestos
- 3) POWER SOURCE
 None
- 4) DIMENSIONS i) L 1.3m ii) W 1.2m iii) HT 2.2m
- 5) The sentry box is placed on a concrete slab, the eastern side is open. There is an open slit window on the south side.

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER	OLD SERIES	RCHME NUMBER 228	N.G.R. TL 37680 01486
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NAME/FUNCTION Traverse	START DATE	END DATE
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NO PHOTOGRAPHY
AVAILABLE

CARTOGRAPHIC DEPICTION	DOCUMENTARY REFERENCES
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PHOTOGRAPHY HISTORIC	PHOTOGRAPHY RCHME
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RELATIONSHIPS WITH OTHER MONUMENTS
ASSOCIATED WITH: L130

CONDITION Fair

DESCRIPTION

1) CONSTRUCTIONAL MATERIAL
Timber and earthwork

4) DIMENSIONS i) L ii) W iii) HT iv)

5)

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER	OLD SERIES	RCHME NUMBER 254	N.G.R. TL 3784 0114
NAME/FUNCTION Edge Runners		START DATE	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: L162 OVERLIES: RCHME 278			
CONDITION Fair			
<p>DESCRIPTION</p> <p>1) CONSTRUCTIONAL MATERIAL Limestone</p> <p>4) DIMENSIONS See below</p> <p>5) During the re-excavation of canal RCHME 278 two edge runners were removed from the site of building L162. It was unclear whether the stones were set into the floor of the building or in the adjacent yard, both sat on a thick bed of mortar.</p> <p> The stone runners measure:</p> <p> 1) Diameter 1.4m, thickness 38.5cm, square hole in the centre 30.5cm x 30.5cm (12"²)</p> <p> 2) Diameter 1.4m, centre hole 33cm x 31.5cm</p>			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
NUMBER	OLD SERIES	RCHME NUMBER 265	N.G.R. TL 37598 01722
NAME/FUNCTION Building		START DATE post war	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: Burning Ground			
CONDITION Destroyed			
DESCRIPTION 1) CONSTRUCTIONAL MATERIAL Timber 2) ROOF MATERIALS AND STRUCTURE Flat wooden board 3) POWER SOURCE None 4) DIMENSIONS i) L 3.2m ii) W 2m iii) HT 1.6m 5) Small roughly built timber structure to the North East of the burning ground.			

7

*Detonator store? Concrete pipe + scaffold boards
used in construction.*

L AREA

ASH TRACK c.10m TO NORTH OF L199

TL. 37555 01590
37683 01623

Notification received from D.Priddy (English Heritage) ^{to} ~~at~~ treat the above ash track within the existing SMC (Ref: HSD 9/2/31 30 pt 2 [22.12.1993]) granted for the removal of waste tips.

- Frequent asbestos arisings after rainfall.
- Presence of rubble/ash/metal debris in make up is clear.

Steve Chaddock
27th February 1995.

Burning Ground Remediation.

Using a bladed machine, the fill of the burning ground was gradually excavated. The likelihood of contamination in this area is high and it seems that the area was used as a general waste dump as well as being utilised as a thermal decontamination area.

The fill consisted of large amounts of ash, asbestos (brown & white board), reinforced concrete posts and bricks (mixture of engineering and fletton). There were also substantial amounts of ~~sandstone~~ metal pipework, of the sort used in electrical work, ~~and some timbers, cement~~. The odd large block of ~~sandstone~~ sandstone was also recovered.

Fourteen metres from L402, in an east south easterly direction, was a ~~marshy~~ marshy area c. 8m across. This had uncut tree trunks in it, as if to provide a stabling capable of being walked on. This seems curious as there are causeways in this area, raised well above the marshy area, for the purpose of remaining dry while walking around site.

The major east/west canal RCHME 274 is expected to be found ~~on~~ on excavation of the overlying fill of the Burning Ground Area.

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**WALTHAM ABBEY
ROYAL GUNPOWDER
MILLS COMPANY LIMITED**

MEMO

To: Steven Bashford

From:

Fax:

Date: 08/09/98

Phone:

CC: Clive England

Re: Small Buildings on Queens Mead

On Thursday 27 August Steven Chaddock accompanied David Prince, Trevor Knapp and Robert Saunders on a site visit to consider the proposals from the design team. Further information was requested on the size and nature of the small structures within the 'courtyards' that exist on the east side of Queens Mead in view of the pressing need to provide more toilet facilities.

There follows a list of these to include notes on their construction date, historic usage and floor size.

Small Buildings on Queens Mead			
<i>Building</i>	<i>Construction Date</i>	<i>Use</i>	<i>Size</i>
L126	1951-2	Sewer Pump House	4.3x3.37m (14.19sqm)
L141	1899	Expense Magazine	5.8x4m (23.2sqm)
L140	?1955	Locker Magazine	5.5x2.6m (14.3sqm)
L150	1941	Air Raid Shelter	9.18x5.18m (47.55sqm)
L164	1959	Oven Room	6.06x2.67m (16.18sqm)
L144	1960	Solvent & Waste Store	4.8x2.29m (10.99sqm)
L154	?1861	Expense Magazine	4.02x3.43m (14.78sqm)
L174	1959	Magazine	2.29x2.29m (5.24sqm)
L191	1949-1952	Stability Test Laboratory	11x6.65m (73.15sqm)
L198	1956	Stability Laboratory	9.2x10.7m (98.44sqm)

Some serious consideration has also been given to the provision of toilets in the existing toilet block, L121, behind the laboratory building L122 in the northwest corner of Queens Mead. This option would be more appropriate as it is a toilet block already.



THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER	OLD SERIES see below	RCHME NUMBER 333	N.G.R. TL 37852 01170
NAME/FUNCTION Charcoal Works/Cylinder House Gas Works	START DATE 1830 1865?	END DATE 1904?	

NO PHOTOGRAPHY
AVAILABLE

CARTOGRAPHIC DEPICTION	DOCUMENTARY REFERENCES
<p>1830 PRO MP11.15 Drayson ; New Cylinder House</p> <p>1844 OS Sheet 72 Brentwood ; Cylinder ho</p> <p>1865 WASC 900/38 + SUPP5 975</p> <p>1865 WASC 900/41A</p> <p>1865 WASC 900/42</p> <p>1897 WASC 900/53C</p> <p>1897 OS 2nd Ed Essex XLIX. 10</p> <p>c1910 WASC 900/65</p> <p>c1910 WASC 900/79</p> <p>1917 WASC 900/70</p> <p>1917 WASC 900/72</p> <p>1919 WASC 900/74</p> <p>c1920 WASC 900/80</p> <p>1923 WASC 900/84</p>	<p>1830 Drayson F p4, p5, p28, p35</p> <p>1908 RGPF Ledger WASC 1509 + WASC 1764;Charcoal works Cylinder house</p>

PHOTOGRAPHY HISTORIC	PHOTOGRAPHY RCHME <i>Site Plan</i>
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RELATIONSHIPS WITH OTHER MONUMENTS
ASSOCIATED WITH: RCHME 278

CONDITION Demolished

DESCRIPTION
<p>Old Numbers ; 168,169,170,171,173,174,174a,175,176 constitute the Gas Works including Gasometers around 1923. A Cylinder House is illustrated in the Drayson Treatise of 1830. Probably two major building phases associated with the change of function.</p> <p>A committee of the Board of Ordnance recommended in 1829 that the charcoal cylinders from the Royal Gunpowder Factory should be moved to Waltham Abbey, where until this date there was no facility for producing cylinder charcoal. This recommendation appears to have been acted upon fairly swiftly for in 1830 Drayson marks 'New Cylinder House' on his map of the factory. In 1831 men employed in the cylinder house at Faversham are transferred to Waltham Abbey (Winters 1887, 102).</p>

Remains uncovered during early-mid 1995. Foundation for Gasometers, location of tarp pit etc. See addition report.

BUILDINGS L175 AND L178

The Burning Ground

The Burning Ground gets its name from the use of the area during the post-war period. From the mid-1960s onwards the area was used for the destruction of dangerous chemicals by detonation or by fire.

The western and southern limits are bounded by canals that served magazines and stores, L101 built in 1908-14, L102 built in 1878, and L103 built in 1885. These three buildings and the remains of the canals [RCHME 289] and [RCHME 94] are the remnants of an earlier phase of activity. Two other buildings, 105 and 106, now lost, were magazines for the press houses 107 and 108, west of the Burning Ground.

During the post-war use of the area as the Burning Ground a further six buildings were constructed. With the exception of L175 and L178, and [RCHME 178], a Sentry Box, the others had been destroyed prior to or during the decontamination process. Those buildings that have been lost are building [RCHME 265] a probable Detonator Store, L100, a Remote Detonator Disposal Unit, and L100a, also associated with the remote detonation process. The locations of all buildings, including those now lost, are presented on Figure 1.

L175

This building was erected in 1963 as a remote Firing Control for the Burning Ground, and is constructed of breeze blocks on a concrete slab foundation. It is rectangular in plan and has a door on the eastern elevation and armoured windows on the north and west elevations.

L178

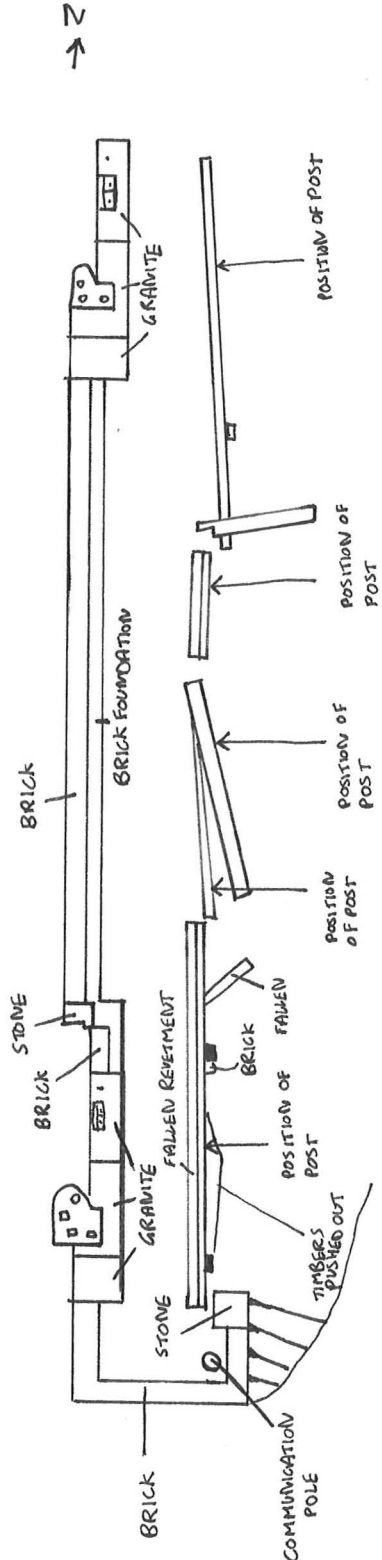
This building was erected around 1963 as a Solvent Store for the Burning Ground, and is constructed of brick with a corrugated asbestos roof on a wooden frame. It is rectangular in plan and has a metal grill door on the southern elevation.

Discussion

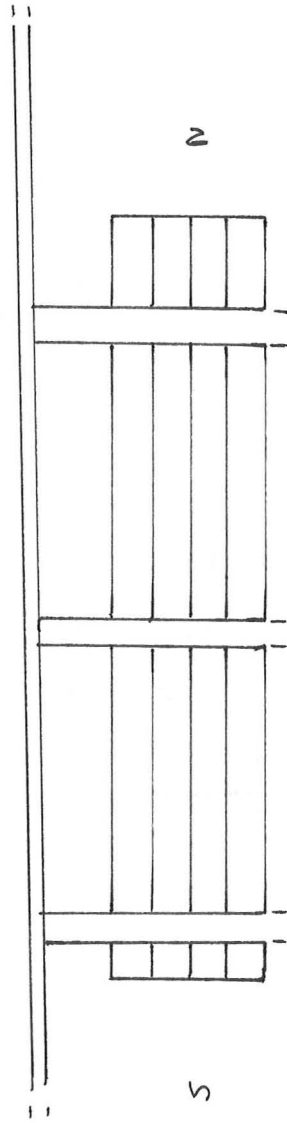
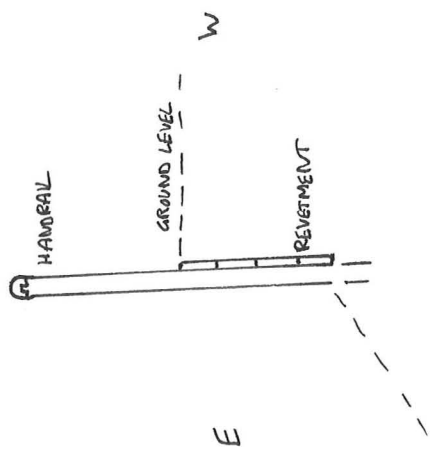
The Burning Ground is an important part of the post-war history of the site, although its development dates back to the nineteenth century. Of these two phases of activity, the archaeology of the earlier is better preserved than that of the latter. Indeed, buildings L175 and L178, along with [RCHME 178], are the only visible remains of post-war activity. The site was thoroughly decontaminated and the present 'green and pretty' landscape is in stark contrast to the appearance of the site when it was in use. Post-decontamination landscaping has altered the look of the site immensely; see Figure 2 for a photograph of the Burning Ground in action. It is important that buildings L175 and L178 are retained and preserved as the survivors of the post-war use of the area, in particular L175, the remote Firing Control, as this played a crucial part in the process of the destruction of dangerous chemicals. Indeed, this is the only building on the site that could be interpreted (for example, with signboards) to explain the post-war activities here.

ANDREW W. TISSMORE
10 AUGUS. 1948

PLAN OF LOCK [RCHME 2257]
1:100



SECTION THROUGH REVELMENT
1:50



SECTION - SIDE VIEW - OF REVELMENT
1:50

- various stonework and metalwork in undergrowth (max size 4m²)
 - other metalwork – max size 3m²
- (the edgerunners require a minimum of 2m² each)

East Side

REMOVE SPACE

- 2 barges – each measures 2.3x7m

L169 (slab of concrete next to L168)

REMOVE SPACE

- Currently used to store large artefacts from South site as well as 2 dismantled buildings – total area occupied is 12x20m

Behind L149

REMOVE SPACE

- 22 timber revetments from a canal bank – total area 2.4x3.4m

Behind S13

REMOVE SPACE

- 32 timber revetments from a canal bank – total area 3.5x4m

Container near L168

REMOVE SPACE

- Container measuring 2.5x4.5m holding wooden artefacts including canal revetment timbers

L168

REMOVE SPACE

- Medium-term store for small artefacts from the North and South Sites; also a potential open store following opening of phase 1. (Also see below.)

Other Millstone Fragments

REMOVE SPACE

- In addition to the millstones outside A210, there are a further 5 complete millstones and 9 fragments of millstone around the site – their locations are presented on Figure 1.

To summarise, the artefacts listed above take up an approximate area of 243m².

Suggested Buildings to be used for long-term Storage

This section presents details of buildings that could be brought into use as artefact stores. Buildings L169 and L149 are listed buildings, and in using and maintaining them as artefact stores, WARGM Co Ltd would be carrying out their duty as owners of these listed buildings to keep them in good repair.