

**THE ROYAL GUNPOWDER FACTORY**

**WALTHAM ABBEY**

**Guncotton Drying Stoves**

**74-98**

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1.507 40  
14-1-14

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
NUMBER	OLD SERIES	RCHME NUMBER	N.G.R.
	74		TL 37640 02024
NAME/FUNCTION		START DATE	END DATE
Engine/Fan House		1879 1904(altered)	1945?
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
1923	WASC 900/84 ; 74 Engine House	1908	RGPF Ledger WASC 1509 + WASC 1764 ; Engine & Fan House built 1879 p7
		c1925	RGPF Ledger WASC 1680 ; Engine & Fan House
		c1945	RGPF Ledger WASC 1508 ; Engine & Fan House (demolished by explosion)
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS			
ASSOCIATED WITH: 75 underlies steam pipes RCHM 206 and 209			
CONDITION	Demolished		
DESCRIPTION			
1)	CONSTRUCTIONAL MATERIAL Brick		
2)	ROOF MATERIALS AND STRUCTURE -		
3)	POWER SOURCE -		
4)	DIMENSIONS i) L 10m ii) W 5.7m		
5)	The brick foundations of this building remain.		

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER	OLD SERIES 74a	RCHME NUMBER	N.G.R. TL 37706 02020
NAME/FUNCTION Guncotton Stove No.18 Rebuilt		START DATE 1914-18? 1940	END DATE 18-Jan-1940 1945
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION  1923      WASC 900/84 ; 74a Guncotton Stove No.18		DOCUMENTARY REFERENCES  c1925      RGPF Ledger WASC 1680 ; Guncotton Stove No.18	
PHOTOGRAPHY HISTORIC  1) WASC 499 Photograh 11, Explosion 18-Jan-1940		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS  ASSOCIATED WITH: 75a, 76a			
CONDITION      Destroyed in an explosion			
DESCRIPTION 1)      CONSTRUCTIONAL MATERIAL Brick and earthwork  2)      ROOF MATERIALS AND STRUCTURE -  3)      POWER SOURCE -  4)      DIMENSIONS i) L      ii) W      iii) HT      iv)DIA  5)      The original stove was destroyed as the result of the accidental explosion of mixing house no.62 on 18th January 1940. The Stove was rebuilt and is visible on post-war ariel photographs. It was probably demolished around 1970 when the new Cattlegate bridge [RCHME 238] was constructed.Its site now partly underlies the road to Cattlegate bridge leading to New Hill, the potential for buried remains is poor.			

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER	OLD SERIES 75	RCHME NUMBER	N.G.R. TL 37650 02000
NAME/FUNCTION Guncotton Stove No.14	START DATE 1895 1901-2	END DATE 1901 (demolished) 1940 (demolished by explosion)	
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION  1923      WASC 900/84 ; 75 Guncotton Stove No.14	DOCUMENTARY REFERENCES  1908      RGPF Ledger WASC 1509 + WASC 1764 ; Guncotton Stove built 1895 p7 c1925      RGPF Ledger WASC 1680 ; Guncotton Stove c1945      RGPF Ledger WASC 1508 ; Guncotton Stove (destroyed by explosion)  Proc Court Inquirey explosion at RGPF 20-Apr-1940, Appendix IV		
PHOTOGRAPHY HISTORIC  1) WASC 499 Photographs 4 and 5, explosion 18-jan-1940	PHOTOGRAPHY RCHME		
RELATIONSHIPS WITH OTHER MONUMENTS  ASSOCIATED WITH: 74 UNDERLIES: S28			
CONDITION	Fair		

DESCRIPTION

1) CONSTRUCTIONAL MATERIAL  
Brick

2) ROOF MATERIALS AND STRUCTURE  
Formerly slate

3) POWER SOURCE  
Steam heating?

4) DIMENSIONS i) L 9.8m ii) W 6.1m

5) The site of the building is marked by brick foundations and demolition rubble. At the northern end of the building is concrete machine mounting block with four vertical mounting bolts. This building was severely damaged in two explosions in 1940, 18 january and 20 april.

To the south of the building is a battered cast concrete traverse. The traverse is 9m in length, 2.3m wide and 3.4m in height. It has been partly incorporated into S28.

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER	OLD SERIES 75a	RCHME NUMBER	N.G.R. TL 37721 02000
NAME/FUNCTION Motor House Rebuilt		START DATE 1908-14 1940	END DATE 18-Jan-1940 1945
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION  1923      WASC 900/84 ; 75a Motor House		DOCUMENTARY REFERENCES	
PHOTOGRAPHY HISTORIC  1) WASC 499, Photograph ?12, explosion 18-Jan-1940		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS  ASSOCIATED WITH: 74a, 76a			
CONDITION      Buried ?			
DESCRIPTION 1)      CONSTRUCTIONAL MATERIAL -  2)      ROOF MATERIALS AND STRUCTURE -  3)      POWER SOURCE -  4)      DIMENSIONS i) L      ii) W      iii) HT  5)      The building was badly damaged in an accidental explosion 18-jan-1940.			

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER	OLD SERIES 76	RCHME NUMBER	N.G.R. TL 37532 01952
NAME/FUNCTION Traverse (part of former Corning House No.3) Press House and Pump House Mixing House No.4	START DATE 1806-1818 c1850 1898?	END DATE 1819 1898? 1940?	
NO PHOTOGRAPHY AVAILABLE			
<p>CARTOGRAPHIC DEPICTION</p> <p>1827 WASC 900/04 + MPH 271 ; Traverse site of Former Corning House worked by Horses.</p> <p>1830 WASC 900/05 ; site of No.3 Corning House</p> <p>c1835 WASC 900/07 ; site of Corning House</p> <p>1865 WASC 900/38 + SUPP5 975 ; Press House, Wheel, Pump, Washing up Houses and Traverse.</p> <p>1865 WASC 900/42 ; Press House, Wheel, Pump, Washing up Houses and Traverse.</p> <p>1871 SUPP5/682 ; Wasing up House/Press House</p> <p>1897 WASC 900/53C</p> <p>c1910 WASC 900/65 ; 76</p> <p>c1910 WASC 900/79 ; 76</p> <p>1917 WASC 900/70 ; 76</p> <p>1917 WASC 900/72 ; 76</p> <p>1919 WASC 900/74 ; 76</p> <p>c1920 WASC 900/80 ; 76</p> <p>1923 WASC 900/84 ; 76</p> <p>1932 WASC 900/87 ; 76</p> <p>&gt; 1940 WASC 900/91A ; 76</p> <p>1954 A - B.34 ; 76</p> <p>c1960 WASC 900/94 ; 76</p> <p>c1963 WASC 900/97 ; 76</p> <p>1972 WASC 900/102 ; 76</p> <p>1972 WASC 900/104 ; 76</p> <p>1976 WASC 900/113 ; 76</p>		<p>DOCUMENTARY REFERENCES</p> <p>1830 Statement of Property WO55 2351</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 presevation' Winters 1887 p86</p> <p>1841 Statement of Property WO55 2856</p> <p>1851 Statement of Property WO55 3027</p> <p>1908 RGPF Ledger WASC 1509 + WASC 1764 ; Mixing House, Shoe Porch built 1860(about)p7</p> <p>c1925 RGPF Ledger WASC 1680 ; Mixing House, Shoe Porch</p> <p>c1945 RGPF Ledger WASC 1508 ; Mixing House, Shoe Porch (demolished)</p> <p>1972 ERDE list ; Former Mixing House No.4</p> <p>1992 RARDE list ; Former Mixing House No.4</p>	
<p>PHOTOGRAPHY HISTORIC</p> <p>1) WASC 499 Photograph No.6 - Damage to building in january 1940 when Mixing House 63 blew up.</p>		<p>PHOTOGRAPHY RCHME</p> <p>1) 206/I/16 01 Feb 1993 Traverse from South West</p> <p>206/I/18 01 Feb 1993 Dock near 76 from South</p> <p>206/I/19 01 Feb 1993 Traverse from South</p> <p>206/T/7 17 Mar 1993 Brick traverse</p>	

RELATIONSHIPS WITH OTHER MONUMENTS

ASSOCIATED WITH: RCHME 288      CUT BY: RCHM 107

CONDITION      GOOD: Fair

DESCRIPTION

1)      CONSTRUCTIONAL MATERIAL  
Brick

2)      ROOF MATERIALS AND STRUCTURE  
-

3)      POWER SOURCE  
1) Horse 2) Water powering a hydraulic pump 3) Electric lighting?

4)      DIMENSIONS i) L 14.94m ii) W 5.45m iii) HT estimate 6m

5)      The monument lies at the head of a higher level leat RCHME 288 fed from Millhead stream. The core of this monument is an oval, battered brick traverse dating from the early nineteenth century and associated with a corning mill worked by horses. In the middle of the century the building was converted to a water powered gunpowder press house, analogous to 103/4. The mill was powered by the head of water from the leat falling into the old river Lee at a lower level. This wheel powered an hydraulic pump which in turn powered the press on the north east side of the building. At the end of the century the press house was converted to a cordite mixing house. The mixing house was badly damaged in an explosion in 1940 and may have gone out of use at this time. The site of the wheel house to the south west of the traverse was lost in 1940 when a new canal arm was pushed though RCHM 107.

The remains consist of the brick traverse, to the southwest a short length of a brick foundation in the canal bank marks one wall of the wheel house, the remainder has been lost to the canal. To the north east of the traverse the brick foundations of the press house, length 8.65m width 7.23m and part of a broken concrete floor. The western wall also forming a wharf edge to the canal basin. Along the front of the wharf is some metal piping that may either relate to the hydraulic gunpowder press or the cordite mixing house. To the southwest of the traverse the foundations of the northern wall of the pump house survive in the canal bank as a single row of bricks.

Historic artefacts - Metal pipes along the front of the press house.



**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER	OLD SERIES 76a	RCHME NUMBER	N.G.R. TL 37737 01970
NAME/FUNCTION Guncotton Stove No.19		START DATE 1908-1914	END DATE 1945
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION  1923      WASC 900/84 ; 76a Guncotton Stove No.19		DOCUMENTARY REFERENCES  c1925    RGPF Ledger WASC 1680 ; Guncotton Stove No.19 c1945    RGPF Ledger WASC 1508 ; Guncotton Stove No.19  1972     ERDE List ; Guncotton Stove/Burnt out 1992     RARDE List ; Guncotton Stove/Burnt out	
PHOTOGRAPHY HISTORIC  1) WASC 499 Photograph 13, Explosion 18-Jan-1940		PHOTOGRAPHY RCHME 1) 206/M/20 4 Mar 1993 From West 206/M/21 4 Mar 1993 Detail of warm air pipe 206/M/22 4 Mar 1993 Detail of warm air pipe roof plate	
RELATIONSHIPS WITH OTHER MONUMENTS  ASSOCIATED WITH: 74a, 75a			
CONDITION      Good			

#### DESCRIPTION

- 1) CONSTRUCTIONAL MATERIAL  
Brick and earthwork

- 2) ROOF MATERIALS AND STRUCTURE  
-

- 3) POWER SOURCE  
Electricity and steam heat

- 4) DIMENSIONS iii) HT wall 2.05m iv) DIA 10.8m

- 5) The guncotton stove survives as a circular brick wall 2.05m in height and 10.8m in diameter with an earthen mound packed around it almost to wall height. The interior of the walls in this stove are cement rendered. The Stove was entered from the south west along a covered porch. The porch consists of a low brick wall into which bolts were set to secure the timber superstructure. Two concrete blocks on the opposite side of the modern track mark the positions of upright timbers. These formerly supported a cover over narrow gauge railway that served the stove.

The stove was situated within a circular round house set on a platform separated from the enclosing wall by a narrow gully. The inner edge of this gully is lined with grey engineering bricks into which are set vertical bolts that formerly carried the timber frame of the building.

The stove was lit by electric 'Maxlume' lights, a number of which are lying around in the building. The heating was supplied to the stove by a single pipe which entered from the north west. The pipe is constructed from joined sheet metal segments forming two flanged straights 1.45m and 3.05m in length with a bore of 30.2cm connected to a flanged curve. This in turn was connected to a circular roofplate 106.5m in diameter with a bore of 30.5cm. The pipe is lagged with fibrous asbestos held in place by chicken wire with an outer sheet metal coat.

The stove was severely damaged in an explosion on 18-Jan-1940 see WASC 498, .499

Historic artefacts - Light fittings, nails and heating pipe, window glass?

## THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER	OLD SERIES 88a	RCHME NUMBER	N.G.R. TL 37594 01900
NAME/FUNCTION No.6 Mixing House C.E. Magazine		START DATE 1914-20? 1940?	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION  1923      WASC 900/84 ; 88a > 1940    WASC 900/91A ; 88a 1954      A - B.34 ; 88a c1960     WASC 900/94 ; 88a c1963     WASC 900/97 1972      WASC 900/102 1972      WASC 900/104 1976      WASC 900/113		DOCUMENTARY REFERENCES  Plans; 88a      B01 - B04 ; Plans and Elevations  c1925    RGPf Ledger WASC 1680 ; CE Magazine  1991      Mott McDonald survey 1992      RARDE List ; Derelict Tetryl Magazine and Mixing House	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS  ASSOCIATED WITH: 88b			
CONDITION      Fair			

DESCRIPTION

1) CONSTRUCTIONAL MATERIAL  
Brick in English Bond

2) ROOF MATERIALS AND STRUCTURE

-

3) POWER SOURCE  
Electric lighting

4) DIMENSIONS i) L 10.67m ii) W 6m iii) HT gable 5m

5) The magazine is a single storey gabled building in brick. The western wall consists of three blind panels the centre panel has the double doors. This entrance was originally protected by a covered porch in order that material could be loaded and unloaded under cover from the adjacent canal. The north and south gabled ends consist of two blind panels with a window in each panel. The eastern wall has three blind panels with a window in the centre panel opposite to the door. In the concrete floor of the building are a number of holes marking the positions of the mixing tables. The building is roofless.

All five windows in the building retain part of the danger building lighting system. This consisted of a timber blocking to the window with a single small pane of glass at the top, two in the larger eastern window. External to each window is a Maxlume danger building light casing set with a wooden case. The wiring for the lights was enclosed within narrow bore metal piping.

Historic artefacts - Danger building lights including at least one window frame.

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER 88b	OLD SERIES	RCHME NUMBER	N.G.R.
NAME/FUNCTION Fanhouse?		START DATE 1940	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME 1) 206/I/21 From south 206/T/12 From south	
RELATIONSHIPS WITH OTHER MONUMENTS  ASSOCIATED WITH: 88a			
CONDITION      Good			
<p>DESCRIPTION</p> <p>1)      CONSTRUCTIONAL MATERIAL         Brick</p> <p>2)      ROOF MATERIALS AND STRUCTURE         Flat concrete slab</p> <p>3)      POWER SOURCE         Electricity</p> <p>4)      DIMENSIONS i) L 3.25m ii) W 3.25m iii) HT 3.26m</p> <p>5)      The building is a small brick shed with a single door on the west side and a small window on the northern side. The door furniture is brass. A small circular hole on the south side presumably housed a pipe leading to 88a. With the building is an electric ?pump, for pushing warm air into 88a?. A small plate on the machine records the date of manufacture as 16 12 40.</p> <p>        Historic artefacts - pump and makers plate (it is the only surviving ?warm air pump/fan on site), brass door furniture.</p>			

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER	OLD SERIES 91a	RCHME NUMBER	N.G.R. TL 37724 01906
NAME/FUNCTION Hose House		START DATE 1908-14	END DATE 1945
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES c1925 RGPF Ledger WASC 1680 ; Hose House c1945 RGPF Ledger WASC 1508 ; Hose House	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: U9, 93a			
CONDITION Demolished			
DESCRIPTION 1) CONSTRUCTIONAL MATERIAL  2) ROOF MATERIALS AND STRUCTURE  3) POWER SOURCE  4) DIMENSIONS i) L      ii) W      iii) HT  5)			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
NUMBER	OLD SERIES 91b	RCHME NUMBER	N.G.R. TL 37725 01902
NAME/FUNCTION Earth Closet		START DATE 1908-14	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION  1923 WASC 900/84; 91b E.C. Womens		DOCUMENTARY REFERENCES	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS  ASSOCIATED WITH: 91a			
CONDITION partially Demolished			
DESCRIPTION 1) CONSTRUCTIONAL MATERIAL Brick and timber superstruture 2) ROOF MATERIALS AND STRUCTURE 3) POWER SOURCE None 4) DIMENSIONS i) L 5.8m ii) W 2.6m iii) HT 2.3m 5) Remains of a demolished toilet block, northwest wall survives with the remains of a urinal attached, low brick sill wall with vertical mounting bolts for a timber superstructure survives around the remainder of the base. Opposite to the toilet block is a cast iron telephone column.			

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER	OLD SERIES 92a	RCHME NUMBER	N.G.R. TL 37775 01921
NAME/FUNCTION Guncotton Stove No.20		START DATE 1908-1914	END DATE 1945
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION  1923      WASC 900/84 ; 92a Guncotton Stove No.20		DOCUMENTARY REFERENCES  c1925    RGPF Ledger WASC 1680 ; Guncotton Stove No.20  1972    ERDE List ; Guncotton Stove/Burnt out 1992    RARDE List ; Guncotton Stove/Burnt out	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS  ASSOCIATED WITH: 92b, 93c			
CONDITION      Good			



DESCRIPTION

1) CONSTRUCTIONAL MATERIAL  
Brick and earthwork

2) ROOF MATERIALS AND STRUCTURE

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3) POWER SOURCE  
Electricity and steam heat

4) DIMENSIONS iii) HT wall 2m iv)DIA 10.7m

5) The guncotton stove survives as a circular brick wall 2m in height and 10.7m in diameter with an earthen mound packed around it almost to wall height. The Stove was entered from the south west along a covered porch. The porch consists of a low brick wall into which bolts were set to secure the timber superstructure. Two concrete blocks on the opposite side of the modern track mark the positions of upright timbers. These formerly supported a cover over narrow guage railway that served the stove.

The stove was situated within a circular round house set on a platform separated from the enclosing wall by a narrow gully, 65cm in width and 30cm deep. The inner edge of this gully is lined with grey engineering bricks into which are set vertical bolts that formerly carried the timber frame of the building.

The heating was supplied to the stove by a single pipe which entered from the south est from motor house 92b. The pipe is constructed from joined sheet metal segments forming two flanged straights 1.4m and 2.43m in length with a bore of 30.2cm connected to a flanged curve. This in turn was connected to an octagonal roofplate 91.2cm x 91.7cm with a bore of 30.5cm. The pipe is lagged with fibrous abestos secured by chicken wire with an outer sheet metal coat.

Historic artefacts - Light fittings, nails and heating pipe, window glass?

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER	OLD SERIES 92b	RCHME NUMBER	N.G.R. TL 37797 01900
NAME/FUNCTION Motor House		START DATE 1908-14	END DATE 1945
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES c1925 RGPF Ledger WASC 1680 ; Motor House c1945 RGPF Ledger WASC 1508 ; Motor House	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: 92a, 93c			
CONDITION      Poor			
DESCRIPTION 1)      CONSTRUCTIONAL MATERIAL  2)      ROOF MATERIALS AND STRUCTURE  3)      POWER SOURCE Steam heat and electricity  4)      DIMENSIONS i) L      ii) W      iii) HT  5)      The site of this building is marked by a westward bulge in the scarp linking 92a to 93c and the earthwork of a raised path to the west.			

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER	OLD SERIES 93a	RCHME NUMBER	N.G.R. TL 37742 01866
NAME/FUNCTION C.E. Stove no 1	START DATE 1908-14	END DATE 1945	
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION  1923      WASC 900/84 ; 93a C.E. Stove No.1	DOCUMENTARY REFERENCES  c1925      RGPF Ledger WASC 1680 ; C.E. Stove No.1  1972      ERDE List ; Guncotton Stove/Burnt out 1992      RARDE List ; Guncotton Stove/Burnt out  Proc Court Enquirey Explosion RGPF 20-Apr- 1940 Map C.E. Store no 5		
PHOTOGRAPHY HISTORIC	PHOTOGRAPHY RCHME 1) 206/M/6 4 Mar 1993 From East		
RELATIONSHIPS WITH OTHER MONUMENTS  ASSOCIATED WITH: 93b, 96a			
CONDITION    Good			

DESCRIPTION

1) CONSTRUCTIONAL MATERIAL  
Brick and earthwork

2) ROOF MATERIALS AND STRUCTURE

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3) POWER SOURCE  
Electricity and steam heat

4) DIMENSIONS iii) HT wall 2.05m iv)DIA 10.7m

5) The guncotton stove survives as a circular brick wall 2.05m in height and 10.7m in diameter with an earthen mound packed around it almost to wall height. The Stove was entered from the northeast through a covered porch. The porch consists of a low brick wall into which bolts were set to secure the timber superstructure. Two concrete blocks on the opposite side of the modern track mark the positions of upright timbers. These formerly supported a cover over narrow gauge railway that served the stove.

The stove was situated within a circular round house set on a platform separated from the enclosing wall by a narrow gully. The inner edge of this gully is lined with grey engineering bricks into which are set vertical bolts that formerly carried the timber frame of the building.

The heating was supplied to the stove by a single pipe which entered from the south west from motor and switch house 93b. The pipe is constructed from joined sheet metal segments forming two flanged straights 1.92m and 2.43m in length with a bore of 30.3cm connected to a flanged curve. The pipe is lagged with fibrous abestos secured by chicken wire with an outer sheet metal coat.

Historic artefacts - Light fittings, nails, heating pipe, window glass

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER	OLD SERIES 93b	RCHME NUMBER	N.G.R. TL
NAME/FUNCTION Motor and switch house	START DATE 1908-14	END DATE 1945	
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS  ASSOCIATED WITH: 93a, 96a			
CONDITION Fair			
<p>DESCRIPTION</p> <p>1) CONSTRUCTIONAL MATERIAL -</p> <p>2) ROOF MATERIALS AND STRUCTURE -</p> <p>3) POWER SOURCE Electricity and steam heat</p> <p>4) DIMENSIONS i) L 6m ii) W 4.1m</p> <p>5) The building has been demolished a concrete floor slab remains with vertical bolts that formerly secured the timber frame.</p>			

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER	OLD SERIES 93c	RCHME NUMBER	N.G.R. TL 37814 01871
NAME/FUNCTION C.E. Stove No.20		START DATE 1908-14	END DATE 1945
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION  1923      WASC 900/84 ; 93c C.E. Stove No.20		DOCUMENTARY REFERENCES  c1925    RGPF Ledger WASC 1680 ; C.E. Stove No.20  1972    ERDE List ; Guncotton and Tetryl Stove/Burnt out 1992    RARDE List ; Guncotton and Tetryl Stove/Burnt out	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME  1) 206/M/17 4 Mar 1993 From West Strong porch posts 206/M/18 4 Mar 1993 Detail of warm air pipe 206/M/19 4 Mar 1993 Detail of interior from South	
RELATIONSHIPS WITH OTHER MONUMENTS  ASSOCIATED WITH: 92a, 92b			
CONDITION: Good			

#### DESCRIPTION

1) CONSTRUCTIONAL MATERIAL  
Brick

2) ROOF MATERIALS AND STRUCTURE

3) POWER SOURCE  
Electricity and warm air

4) DIMENSIONS i) L ii) W iii) HT 2.05 iv) internal 11m

5) The guncotton stove survives as a circular brick wall 2.05m in height and 10.7m in diameter with an earthen mound packed around it almost to wall height. The Stove was entered from the northwest through a covered porch 7.4 m length and 2.4m wide. The porch consists of a low brick wall into which bolts were set to secure the timber superstructure. Two concrete blocks on the opposite side of the modern track mark the positions of upright timbers. These formerly supported a cover over narrow gauge railway that served the stove. Opposite to the entrance is a 'telegraph' pole that formerly carried an overhead line, the poles and insulators dated from the 1890s.

The stove was situated within a circular round house set on a platform separated from the enclosing wall by a narrow gully. The inner edge of this gully is lined with grey engineering bricks into which are set vertical bolts that formerly carried the timber frame of the building.

The heating was supplied to the stove by a single pipe which entered from the south west from motor and switch house 92b. The pipe is constructed from joined sheet metal segments forming two flanged straights 1.92m and 2.43m in length with a bore of 30.3cm connected to a flanged curve. The pipe is lagged with fibrous asbestos secured by chicken wire with an outer sheet metal coat. The pipe formerly connected to the apex of the conical roof of the stove and was secured by a circular metal plate.

Historic artefacts - Light fittings, nails, heating pipe, window glass

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER	OLD SERIES 93d	RCHME NUMBER	N.G.R.
NAME/FUNCTION Motor House	START DATE 1908-14	END DATE 1945	
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS  ASSOCIATED WITH: 96b			
CONDITION      Fair			
<p>DESCRIPTION</p> <p>1)      CONSTRUCTIONAL MATERIAL          -</p> <p>2)      ROOF MATERIALS AND STRUCTURE          -</p> <p>3)      POWER SOURCE          Electricity and steam heat</p> <p>4)      DIMENSIONS i) L 4.1m ii) W 4m</p> <p>5)      The building has been fired. A concrete floor slab remains with vertical bolts that formerly secured the timber framed building to the base.</p>			



THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
NUMBER	OLD SERIES 94	RCHME NUMBER	N.G.R.
NAME/FUNCTION Boat house		START DATE 1857-8	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES 1908 RGPF Ledger WASC 1509 + WASC 1764; Boat House built 1857-8(about) p4	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS  ASSOCIATED WITH: S31			
CONDITION      Demolished, bay and foundations may survive as buried remains			
DESCRIPTION  5)      At the site of the boathouse are odd brick foundations they may mark its site. The area is now partly covered by a tarmac and concrete surface.			

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER	OLD SERIES 95a	RCHME NUMBER	N.G.R. TL37590 01807
NAME/FUNCTION Tetryl Purification plant		START DATE 1917?	END DATE 1945?
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES Plan 95a B.02 9.10.16	
PHOTOGRAPHY HISTORIC PRO Supply 5/861 349		PHOTOGRAPHY RCHME 1) 206/H/36 95a From South	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: U6			
CONDITION      Good			
DESCRIPTION 1)      CONSTRUCTIONAL MATERIAL Concrete  3)      POWER SOURCE -  4)      DIMENSIONS i) L 5.8m ii) W 5.15 iii) HT 1.65  5)      Solid concrete hexagonal base raised on concrete legs, on top of the platform are two concrete blocks with vertical mounting bolts set into them.			

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER 95b	OLD SERIES	RCHME NUMBER	N.G.R. TL 37617 01812
NAME/FUNCTION Fire Engine House		START DATE 1918?	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS  ASSOCIATED WITH:			
CONDITION      Demolished			
DESCRIPTION  4)      DIMENSIONS i) L 3.1m ii) W 3.3m  5)      The building has been demolished, a concrete floor slab with vertical frame mounting bolts remains. A timber revetment against the side of Old River Lee may mark the position of a bridge.			

**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

<p><b>CARTOGRAPHIC DEPICTION</b></p> <p>1865 WASC 900/38 + SUPP5 975 ; Box House          1865 WASC 900/41A ; Box House          1865 WASC 900/42 ; Box House          1897 WASC 900/53C          c1910 WASC 900/65 ; Dining Room          c1910 WASC 900/79 ; Dining Room          1917 WASC 900/70          1917 WASC 900/72 ; 96          1919 WASC 900/74 ; 96          c1920 WASC 900/80 ; 96          1923 WASC 900/84 ; 96          &gt; 1940 WASC 900/91A ; 96          1954 A - B.34 ; 96          c1960 WASC 900/94 ; 96          c1963 WASC 900/97 ; 96          1972 WASC 900/102 ; 96          1972 WASC 900/104 ; 96          1976 WASC 900/113 ; 96</p>	<p><b>DOCUMENTARY REFERENCES</b></p> <p>Plans;          96 B01,B02 ; Plans and Elevations 1861,1871            1908 RGPF Ledger WASC 1509 + WASC 1764 ;          Dining Room built 1861 p9          c1925 RGPF Ledger WASC 1680 ; Dining Room          c1945 RGPF Ledger WASC 1508 ; Dining Room            1992 RARDE List ; Dining House</p>
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<p><b>PHOTOGRAPHY HISTORIC</b></p>	<p><b>PHOTOGRAPHY RCHME</b></p> <p>1) 206/J/5 From east          206/J/6 Detail of window showing blackout shutters          206/J/7 From North          206/J/8 Detail of window          206/R/24 From east          206/R/25 North elevation from east</p>
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**RELATIONSHIPS WITH OTHER MONUMENTS**

ASSOCIATED WITH:

CONDITION      Poor

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.

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER	OLD SERIES 96a	RCHME NUMBER	N.G.R. TL 37784 01821
NAME/FUNCTION C.E. Stove No.2	START DATE 1908-14	END DATE 1945	
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION  1923      WASC 900/84 ; 96a C.E. Stove No.2		DOCUMENTARY REFERENCES  c1925    RGPF Ledger WASC 1680 ; C.E. Stove No.2  1972    ERDE List ; Guncotton and Tetryl Stove/Burnt out 1992    RARDE List ; Guncotton and Tetryl Stove/Burnt out  Proc court enquirey Explosion at RGPF 20-Apr-1940 C.E. Store no 6	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME  1) 206/M/7 4 Mar 1993 Detail of inlet pipe 206/M/8 4 Mar 1993 Detail of inlet into building 206/M/9 4 Mar 1993 Interior of Stove rom South 206/M/10 4 Mar 1993 Steps in west side of mound from South 2) BB92/26286 96A Guncotton Stove with internal pipes BB92/26247 96A Guncotton Stove with Drying Racks view from West.	
RELATIONSHIPS WITH OTHER MONUMENTS  ASSOCIATED WITH: 93a, 93b			
CONDITION      Good			

DESCRIPTION

- 1) CONSTRUCTIONAL MATERIAL  
Brick and earthwork
- 2) ROOF MATERIALS AND STRUCTURE  
Timber board covered by felt
- 3) POWER SOURCE  
Electricity and steam heat
- 4) DIMENSIONS iii) HT wall 2m iv)DIA 10.75m

- 5) The guncotton stove survives as a circular brick a wall 2 in height and 10.75m in diameter, encircled by an earthen mound almost to wall height. The Stove was entered from the northeast through a covered porch. The porch consists of a low brick wall into which bolts were set to secure the timber superstructure. Two concrete blocks on the opposite side of the modern track mark the positions of upright timbers. These formerly supported a cover over narrow guage railway that served the stove.

The stove was situated within a circular round house set on a platform separated from the enclosing wall by a narrow gully. The inner edge of this gully is lined with grey engineering bricks into which are set vertical bolts that formerly carried the timber frame of the building. On the western side of the encircling mound a set of steps ran up the side of the mound. These formerly served a set of steps between the side of the round house and the wall.

The heat for the stove was supplied from motor and switch house 93b. The main feeder pipe being carried up the side of the stove mound on concrete stanchions. This pipe now missing joined to a curved flanged bend.

Historic artefacts - Light fittings, nails and heating pipe, window glass?

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER	OLD SERIES	RCHME NUMBER	N.G.R.
	96b		TL 37842 01826
NAME/FUNCTION		START DATE	END DATE
C.E. Stove No.3		1908-14	1945
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
1923 WASC 900/84 ; 96b C.E. Stove No.3		c1925 RGPF Ledger WASC 1680 ; C.E. Stove No.3	
		1972 ERDE List ; Guncotton and Tetryl Stove/Burnt out	
		1992 RARDE List ; Guncotton and Tetryl Stove/Burnt out	
		Proc court inquirey explosion RGPF 20-Aug-1940 G.C. Stove no 22	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
		1) 206/M/15 From West 206/M/16 Detail of Warm Air Pipe	
RELATIONSHIPS WITH OTHER MONUMENTS			
ASSOCIATED WITH: 93d			
CONDITION		Good	



#### DESCRIPTION

- 1) CONSTRUCTIONAL MATERIAL  
Brick and earthwork
- 2) ROOF MATERIALS AND STRUCTURE  
-
- 3) POWER SOURCE  
Electricity and steam heat
- 4) DIMENSIONS iii) HT wall 2.1m iv)DIA 10.7m

- 5) The guncotton stove survives as a circular brick wall 2.1m in height and 10.7m, encircled by an earthen mound almost to wall height. The Stove was entered from the south west through a covered porch. The porch consists of a low brick wall into which bolts were set to secure the timber superstructure. Two concrete blocks on the opposite side of the modern track mark the positions of upright timbers. These formerly supported a cover over narrow gauge railway that served the stove.

The within the earthen was timber framed circular round house set on a platform separated from the enclosing wall by a narrow gully. The inner edge of this gully is lined with grey engineering bricks into which are set vertical bolts that formerly carried the timber frame of the building.

The heating was supplied to the stove by a single pipe which entered from the north west from motor house 93d. The pipe is constructed from joined sheet metal segments forming two flanged straights 2.41m and 2.41m in length with a bore of 30.2cm connected to a flanged curve. This in turn connected to an octagonal roof plate 92 cm x 92.3cm, bore 30.5cm. The pipe is lagged with fibrous abestos secured by chicken wire with an outer sheet metal coat.

Historic artefacts - Light fittings, nails and heating pipe, window glass?

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER	OLD SERIES 98a	RCHME NUMBER	N.G.R. TL 37815 01760
NAME/FUNCTION Guncotton Stove No.2	START DATE 1908-14	END DATE 1945	
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION  1923      WASC 900/84 ; 98a Guncotton Stove No.22	DOCUMENTARY REFERENCES  1972      ERDE List ; Guncotton Stove/Burnt out 1992      RARDE List ; Guncotton Stove/Burnt out		
PHOTOGRAPHY HISTORIC	PHOTOGRAPHY RCHME 1) 206/M/11 4 Mar 1993 Detail of Drying Rack 206/M/12 4 Mar 1993 Detail of steps on West side 206/M/13 4 Mar 1993 Drying Racks 206/M/14 4 Mar 1993 Detail of steps on West side 2) BB92/26161 98a Detail of interior of Guncotton Stove		
RELATIONSHIPS WITH OTHER MONUMENTS  ASSOCIATED WITH:			
CONDITION: Good			

DESCRIPTION

1) CONSTRUCTIONAL MATERIAL  
Brick

2) ROOF MATERIALS AND STRUCTURE

3) POWER SOURCE  
Electricity and warm air

4) DIMENSIONS i) L      ii) W      iii) HT 1.8m      iv) Dia internal 9.9m

5) The guncotton stove survives as a circular brick wall 1.8m in height and 9.9m in diameter with an earthen mound packed around it almost to wall height. The Stove was entered from the east through a covered porch 7.4 m length and 2.4m wide. The porch consists of a low brick wall into which bolts were set to secure the timber superstructure. The porch is a later addition in red brick, the remainder of the stove being of buff brick. Two concrete blocks on the opposite side of the modern track mark the positions of upright timbers. These formerly supported a cover over narrow gauge railway that served the stove.

The stove was situated within a circular round house set on a platform separated from the enclosing wall by a narrow gully. The inner edge of this gully is lined with grey engineering bricks into which are set vertical bolts that formerly carried the timber frame of the building. Access to the outside of the stove was by means of wooden steps up the southwest side of the traverse and then down into the gully, these steps remain insitu.

The stove was heated by a single warm air pipe served by a fanhouse on the north west side of the traverse mound. This building survives as a concrete floor slab 6.2m x 3.4m, it was timber framed bolted to the slab. The pipe formerly connected to the apex of the conical roof of the stove and was secured by a circular metal plate.

This stove still retained its metal drying racks. There are 14 racks arranged in a circle with an gap opposite to the entrance. Each measures 1.4m in height, and they are 1.25m in length, the width at the front is 0.85m and at the rear 1.25m. The guncotton was supported on wires fixed to the shelves.

Historic artefacts - Drying racks, light fittings, nails, heating pipe, window glass, steps.

# THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER U9	OLD SERIES	RCHME NUMBER	N.G.R. TL
NAME/FUNCTION Bunker	START DATE 1940?	END DATE 1945	
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
PHOTOGRAPHY HISTORIC	PHOTOGRAPHY RCHME 1) 206/M/4 04.03.1993 From South East		
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: 91a			
CONDITION Fair			
DESCRIPTION 1) CONSTRUCTIONAL MATERIAL Breeze block 2) ROOF MATERIALS AND STRUCTURE Concrete slab 3) POWER SOURCE None 4) DIMENSIONS i) L 3.5m ii) W 2.35m iii) HT 2.3m 5) The building is entered through a single door on the east side it has a single window which has been blocked.			

