

THE ROYAL GUNPOWDER FACTORY

WALTHAM ABBEY

Area H



THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
NUMBER H1	OLD SERIES	RCHME NUMBER	N.G.R. TL 37638 00938
NAME/FUNCTION Store		START DATE	END DATE 1992
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES 1972 ERDE List ; Store 1992 RARDE List ; Store	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH:			
CONDITION Demolished			
DESCRIPTION 4) DIMENSIONS i) L 6.6m ii) W 2.92m 5) This modern building was demolished in 1992, a concrete floor slab remains.			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
NUMBER H2	OLD SERIES	RCHME NUMBER	N.G.R. TL 37625 00923
NAME/FUNCTION Store		START DATE	END DATE 1992
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES 1972 ERDE List ; Store 1992 RARDE List ; Store	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH:			
CONDITION Demolished			
DESCRIPTION 4) DIMENSIONS i) L 6.1m ii) W 3m 5) Modern building demolished in 1992, concrete floor slab remains.			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H3	OLD SERIES	RCHME NUMBER	N.G.R. TL 37629 00925
NAME/FUNCTION Solvent store	START DATE		END DATE 1992
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES 1) RARDE list 1992 - Solvent store	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME 1) 206/S/30 17 Mar 1993 Floor slab from East	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH:			
CONDITION Demolished			
DESCRIPTION 4) DIMENSIONS i) L 5.4m ii) W 3m 5) Modern building demolished in 1992, concrete floor slab remains.			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H5	OLD SERIES	RCHME NUMBER	N.G.R. TL 37628 00936
NAME/FUNCTION Store		START DATE	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES 1972 ERDE List ; Store 1992 RARDE List ; Store	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME 1) 206/S/36 17 Mar 1993 From East	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: H6			
CONDITION Good			
<p>DESCRIPTION</p> <p>1) CONSTRUCTIONAL MATERIAL Pre-cast concrete slabs</p> <p>2) ROOF MATERIALS AND STRUCTURE Corrugated abestos</p> <p>3) POWER SOURCE Electricity</p> <p>4) DIMENSIONS i) L ii) W iii) HT iv) DIA</p> <p>5) Modern garage.</p>			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H6	OLD SERIES	RCHME NUMBER	N.G.R. TL 37620 00933
NAME/FUNCTION Store		START DATE	END DATE
NO PHOTOGRAPHY AIALBLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES 1972 ERDE List ; Store 1992 RARDE List ; Store	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME 1) 206/S/36 17 Mar 1993 From East	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: H5			
CONDITION Good			
<p>DESCRIPTION</p> <p>1) CONSTRUCTIONAL MATERIAL Pre-cast concrete slabs</p> <p>2) ROOF MATERIALS AND STRUCTURE Corrugated abestos</p> <p>3) POWER SOURCE Electricity</p> <p>4) DIMENSIONS i) L ii) W iii) HT iv)DIA</p> <p>5) Modern garage.</p>			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H7	OLD SERIES 186	RCHME NUMBER	N.G.R. TL 37560 01100
NAME/FUNCTION Cordite Reel drying stove Laundry Magazine		START DATE 1904 1916?	END DATE 1916?
NO PHOTOGRAPHY AVAILABLE			
<p>CARTOGRAPHIC DEPICTION</p> <p>c1910 WASC 900/65 ; Reel Drying Stove No.1 c1910 WASC 900/79 ; Reel Drying Stove No.1 1917 WASC 900/70 ; Reel Drying Stove No.1 1917 WASC 900/72 ; 186 1919 WASC 900/74 ; 186 c1920 WASC 900/80 ; 186 1923 WASC 900/84 ; 186 1932 WASC 900/87 ; 186 > 1940 WASC 900/91A ; 186 1954 A - B.34 ; H7 c1960 WASC 900/94 ; H7 c1963 WASC 900/97 ; H7 1972 WASC 900/102 ; H7 1972 WASC 900/104 ; H7 1976 WASC 900/113 ; H7</p>		<p>DOCUMENTARY REFERENCES</p> <p>1908 RGPF Ledger WASC 1509 + WASC 1764 ; Reel Drying Stove,Truck Porch,Traverse.built 1904 p20 c1925 RGPF Ledger WASC 1680 ; Reel Drying Stove,Truck Porch,Traverse H7 c1945 RGPF Ledger WASC 1508 ; Reel Drying Stove,Truck Porch,Traverse H7</p> <p>Plan: H07 B01 - B08 ; Plans and Elevations ? to 1961</p> <p>1972 ERDE List ; Magazine and Store 1916 1992 RARDE List ; Magazine 1993 RCHME NBR No 91448</p>	
<p>PHOTOGRAPHY HISTORIC</p>		<p>PHOTOGRAPHY RCHME</p> <p>1) 206/H/12 02 Feb 1993 From South East 206/T/6 17 Mar 1993 From South West 206/T/7 17 Mar 1993 Cordite Reel drying stove in traverse 206/T/32 17 Mar 1993 Expence Magazine from South East 2) BB92/26052 H7 Cordite Reel Magazine view from South East BB92/26248 H7 Entrance view from West showing Toe Board between Dirty and Clean Area BB92/26343 H7 RGPF Drawing H7 B.06 Proposed Reel Stove</p>	
<p>RELATIONSHIPS WITH OTHER MONUMENTS</p> <p>ASSOCIATED WITH: H8, H10, H1</p>			
<p>CONDITION</p>		<p>Good</p>	

DESCRIPTION

- 1) CONSTRUCTIONAL MATERIAL
Brick in English bond
- 2) ROOF MATERIALS AND STRUCTURE
Roofing felt over timber boards and single aisle Fink truss
- 3) POWER SOURCE
Electricity formerly also steam heat
- 4) DIMENSIONS i) L 26.65m ii) W 9.57m iii) HT eave 3.4m
- 5) See attached RCHME Treated Buildings Section Report

ROYAL COMMISSION ON THE HISTORICAL MONUMENTS OF ENGLAND

MOD Building Nos H7 and H8
Reel Drying Stoves
The Royal Gunpowder Factory
Waltham Abbey
Essex

NBR No: 91448
NGR: TL 37560 001100

These buildings are a matching pair of Reel Drying Stoves which were built in 1904 on the Great Hoppit site of the Royal Gunpowder Factory. They each contained a single large room with racks for drying cordite. Cordite reels were brought here for drying before reeling in a separate building (H10).

Of one storey, they each have a rectangular plan of eight bays and are constructed of yellow brick laid in English bond, with "truck porches" at the north and south ends.

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Situated on the Great Hoppit part of the site of the Royal Gunpowder Factory at Waltham Abbey, these buildings were built in 1904 as a pair of Reel Drying Stoves. Building No. H7 and Building no. H8 to its south were almost identical and were known as Reel Drying Stove 1 and Reel Drying Stove 2 respectively.¹ Cordite would have been pressed in other building such as the former gunpowder mill buildings, then dried in one of these Stoves before it was taken to a Reeling House for winding.

Surrounded by earth traverses on the Great Hoppit site of the Royal Gunpowder Factory, both buildings have overall dimensions of 26.65 x 9.57 metres, with a height to the eaves of 3.4 metres. They have a rectangular plan of eight bays, with "truck porches" at the north and south ends.²

The porches, to which tramways originally ran, each contain the remains of a "barrier board" approximately 200 mm high. As a safety precaution to prevent grit and dust entering the building, the 2workers had to stand on a special "shoe board" and don leather over-boots before stepping over the barrier board into the building.³ From the porch, each building was entered on the north and south sides through a wide doorway which had a cambered head of brick.

Each building was a single large room containing racks for drying the cordite reels.⁴ When the buildings were first built in 1904, acetone was used in the cordite mixing process. The drying process was to remove the acetone from the cordite. Steam pipes, associated with the drying, entered the building at the north and south ends of the building, as witnessed by blocked round openings at the east and west sides of the north and south elevations.

The buildings are constructed of yellow brick laid in English bond and have plinths of chamfered brick which respect the

¹ Although the buildings are aligned north-north-west to south-south-east, for clarity in this report they are described as if they were aligned north to south.

² Ledger c1908, cat. WASC 1509 (PRO, Hayes Repository) and drawings of "Proposed Reel Stove, Great Hoppit, RGPF", undated, cat. H7.B.06 (MOD Central Disposals Unit, Chessington).

³ Although describing safety precautions on the site some four years before these Reel Drying Stoves were built, the function of shoe boards and barrier boards is outlined in an article "The Deadliest Spot near London" by Alfred Arkas in The Penny Pictorial Magazine, No. 35, Vol. 3, 3 February 1900, cat. WASC 412.

⁴ Drawings of "Proposed Reel Stove, Great Hoppit, RGPF", undated, cat. H7.B.06 (MOD Central Disposals Unit, Chessington).

porches. The porches were of corrugated iron.⁵ The roof trusses were of iron. The main roof of each building is hipped and has a zinc covering, and the porch roofs are almost flat.⁶

There were windows at approximately every second bay on the east and west elevations of both buildings. The windows have red-brick arched heads and brick closers and were part of the original phase of construction.⁷ On the outside of each window was an electric light.⁸

Alterations made to Building No. H8 include the replacement of the corrugated iron fabric of the porches with timber fabric, the insertion of a small window with a flat head and closers on the east elevation, the subsequent blocking of all the windows, and the insertion of a partition wall in stretcher-bond brick. A new timber porch on the west elevation.⁹ The doors from the porch are in the position of an earlier window. Interrupting the plinth on both the east and west elevations is a small addition with a lead-lined floor and a lean-to roof.¹⁰

In Building No. H7 double doors with cambered heads at the north and south sides have been replaced by square-headed double doors of steel. A steel door was also added on the east elevation. All the windows were blocked. New roofing was added to both buildings in c1940, following bomb damage.¹¹

At least latterly the buildings have been used as stores. The interiors were not inspected at the time of this survey.

Surveyed March 1993
Report by R L Burgess

⁵ Ledger c1908, cat. WASC 1509 (PRO, Hayes Repository) and drawings of "Proposed Reel Stove, Great Hoppit, RGPF", undated, cat. H7.B.06 (MOD Central Disposals Unit, Chessington).

⁶ Ledger c1908, cat. WASC 1509 (PRO, Hayes Repository) and drawings of "Proposed Reel Stove, Great Hoppit, RGPF", undated, cat. H7.B.06 (MOD Central Disposals Unit, Chessington).

⁷ Drawings of "Proposed Reel Stove, Great Hoppit, RGPF", undated, cat. H7.B.06 (MOD Central Disposals Unit, Chessington).

⁸ Drawings of "Proposed Reel Stove, Great Hoppit, RGPF", undated, cat. H7.B.06 (MOD Central Disposals Unit, Chessington).

⁹ Drawing of Reel Stove No. 2: "Additional Loading Porch" on west side, with barrier board, shoe box and gunmetal rails, dated 10/1/1941, cat. H8.B.15 (MOD Central Disposals Unit, Chessington).

¹⁰ The interior of the addition on the west side was not inspected.

¹¹ Bomb damage no. 2 reel store 15/10/1940, cat. WASC 1655/66-68.

Drawing showing details of new roofing, dated 7.12.1940, cat. H7.B.04 (MOD Central Disposals Unit, Chessington).

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H8	OLD SERIES 199	RCHME NUMBER	N.G.R. TL 37580 01018
NAME/FUNCTION Cordite Reel drying stove Magazine		START DATE 1904	END DATE
NO PHOTOGRAPHY AVAILABLE			
<p>CARTOGRAPHIC DEPICTION</p> <p>c1910 WASC 900/65 ; Reel Drying Stove No.2 c1910 WASC 900/79 ; Reel Drying Stove No.2 1917 WASC 900/70 ; Reel Drying Stove No.2 1917 WASC 900/72 ; 199 1919 WASC 900/74 ; 199 c1920 WASC 900/80 ; Reel Drying Stove No.2 1923 WASC 900/84 ; 199 1932 WASC 900/87 ; 199 >1940 WASC 900/91A ; 199 1954 A - B.34 ; H8 c1960 WASC 900/94 ; H8 c1963 WASC 900/97 ; H8 1972 WASC 900/102 ; H8 1972 WASC 900/104 ; H8 1976 WASC 900/113 ; H8</p>		<p>DOCUMENTARY REFERENCES</p> <p>1908 RGPF Ledger WASC 1509 + WASC 1764 ; Reel Drying Stove,Truck Porch,Traverse built 1904 p20 c1925 RGPF Ledger WASC 1680 ; Reel Drying Stove,Truck Porch,Traverse H8 c1945 RGPF Ledger WASC 1508 ; Reel Drying Stove,Truck Porch,Traverse H8 1972 ERDE List ; Magazine 1916 1992 RARDE List ; Magazine 1993 RCHME NBR No.91448</p>	
<p>PHOTOGRAPHY HISTORIC WASC 1655/66-68 Bomb damage No.2 reel store 15.10.1940 PRO Supply 5 311, 312, 314 Parachute bomb damage 15-Nov-1940</p>		<p>PHOTOGRAPHY RCHME 1) 206/H/11 02 Feb 1993 From South East 206/T/33 17 Mar 1993 Earthern Traverce from South East 206/T/34 17 Mar 1993 From South 206/T/4 17 Mar 1993 Cordite Reel Stove from South West 206/T/5 17 Mar 1993 Showing Steam Pipes entering South East corner 2) BB92/26053 H8 Cordite Reel Magazine view from South West</p>	
<p>RELATIONSHIPS WITH OTHER MONUMENTS</p> <p>ASSOCIATED WITH: H7, H10, H12</p>			
CONDITION		Good	

DESCRIPTION

- 1) CONSTRUCTIONAL MATERIAL
Brick in English bond
- 2) ROOF MATERIALS AND STRUCTURE
Roofing felt over timber boards and Fink truss, originally Supply 5/863 314 shows galvanised metal covering.
- 3) POWER SOURCE
Electricity and formerly steam heat
- 4) DIMENSIONS i) L 26.75m ii) W 9.7m iii) HT eave 3.65m
- 5) See RCHME Threatened Buildings Section Report at the end of H7.

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H10	OLD SERIES 218	RCHME NUMBER	N.G.R. TL 37630 00952
NAME/FUNCTION Cordite Reeling house Laboratory area		START DATE 1904 1950	END DATE 1950 1992

NO PHOTOGRAPHY
AVAILABLE

<p>CARTOGRAPHIC DEPICTION</p> <p>c1910 WASC 900/65 ; Reeling House c1910 WASC 900/79 ; Reeling House 1917 WASC 900/70 1917 WASC 900/72 ; 218 1919 WASC 900/74 ; 218 c1920 WASC 900/80 ; 218 1923 WASC 900/84 ; 218 1932 WASC 900/87 ; 218 > 1940 WASC 900/91A ; 218 1954 A - B.34 ; H10 c1960 WASC 900/94 ; H10 c1963 WASC 900/97 ; H10 1972 WASC 900/102 ; H10 1972 WASC 900/104 ; H10 1976 WASC 900/113 ; H10</p>	<p>DOCUMENTARY REFERENCES</p> <p>1908 RGPF Ledger WASC 1509 + WASC 1764 ; Reeling House/Engine House built 1904 p24 c1925 RGPF Ledger WASC 1680 ; Reeling House/Engine House H10 c1945 RGPF Ledger WASC 1508 ; Reeling House/Engine House H10</p> <p>Plans: H10 B01 - B18 ; Plans and Elevations 1951 to 1984</p> <p>1972 ERDE List ; Lab Area 1992 RARDE List ; Lab Area</p> <p>1993 RCHME NBR No.91472</p>
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<p>PHOTOGRAPHY HISTORIC</p>	<p>PHOTOGRAPHY RCHME</p> <p>1) 206/I/35 01 Feb 1993 From South West 206/K/4 01 Feb 1993 From South West 206/S/35 17 Mar 1993 From South East</p> <p>2) BB92/26045 H10 Cordite Reeling House Laboratory view from South East BB92/26354 H10 Reeling House Plan & Elevations (Chessington)</p>
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RELATIONSHIPS WITH OTHER MONUMENTS

ASSOCIATED WITH: primary H7, H8, H12 : secondary H21,

CONDITION Good

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1993 used as laboratory for testing decran samples

DESCRIPTION

- 1) CONSTRUCTIONAL MATERIAL
Brick in English bond
- 2) ROOF MATERIALS AND STRUCTURE
Roofing felt over double gable with glass roof lights
- 3) POWER SOURCE
Electricity and steam heat
- 4) DIMENSIONS i) L 30.85m ii) W 16.38m iii) HT estimate 5m
- 5) The building has a double gable with a central dividing spine wall. It is split into four bays by three partition walls. The wooden panel between each of the partitions is modern and relates to last use of the building as a laboratory.

ROYAL COMMISSION ON THE HISTORICAL MONUMENTS OF ENGLAND

MOD Building No. H10
Reeling House
The Royal Gunpowder Factory
Waltham Abbey
Essex

NBR No: 91472
NGR: TL 37630 00952

Built in 1904 as a Reeling House, this single storey building has a double-pile rectangular plan and a double-gable roof. The main part of the building is of four bays by two bays, around which a covered way creates a further narrow bay on all sides. Reeling of cordite strands took place in three of the four main bays. The covered western end was a tram stop. In the covered eastern end was an engine house and off its east side was a landing stage beside the canal.

The main walls are of yellow brick laid in English bond. Less substantial, the north and south sides of the building were of timber construction. The roof is of iron with bolted timber purlins. The engine house is weatherboarded.

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Situated on the Great Hoppit part of the site of the Royal Gunpowder Factory at Waltham Abbey, the Reeling House was built in 1904.¹² The cordite would have been pressed in other buildings such as the former gunpowder incorporating mills, then dried in the Reel Drying Stoves (H7 or H8), before it was brought to this Reeling House for winding strands of cordite on reels by machinery.¹³

Rectangular in plan, the building is of 30.85 x 16.38 metres and has a height of 16.38 metres. The main part of the building is of four bays by two bays, around which a covered way creates a further narrow bay on all sides. Of the main bays, the eastern one is a single room, whereas the other three main bays were divided at the centre to form six rooms which carried reeling machinery.¹⁴ The covered north and south sides were an open corridor. The covered west end had tramways entering from the north and south sides which terminated at a 'shoe board' in the centre.¹⁵ Here workers would have had to don special leather over-boots before stepping over a barrier board into a corridor and around to either the north and south sides where there are two doors to each room.¹⁶ At the eastern end of the building, another tramway approached from the north side to an engine house, which provided power for the building. East of this was a covered landing stage beside the canal,

¹² Ledger c1908, cat. WASC 1509, (PRO, Hayes Repository).

¹³ Although describing the process carried out on a building on the south site of the Gunpowder Factory, an article written in 1900 explains the process of reeling the cordite: The cordite issues from the machine in the shape of a continuous yellowish-brown thread of varying thicknesses. It is wound on brass reels by machinery. The various sizes are cut by machinery into lengths, each representing the regulation charge for the guns for which they are to be used. (The Penny Pictorial Magazine, No. 35, Vol. 3, Week Ending 3 February 1900, cat. WASC 412).

¹⁴ An undated and uncatalogued ink drawing of proposed Reeling House, Great Hoppit, shows these six rooms with reeling machinery secured to the floor with Lewis bolts. (PRO, Hayes Repository).

¹⁵ Drawing of Plan and Sections of Reeling House, Great Hoppit, RGPF Waltham Abbey, cat. H10.B.02 (MOD Central Disposals Unit, Chessington).

¹⁶ Although describing the process carried out on a building on the south site of the Gunpowder Factory, an article written in 1900 outlines how workers had to don these immense leather over-boots whilst standing on the shoe board, before they were permitted to cross the wooden barrier into the building. (The Penny Pictorial Magazine, No. 35, Vol. 3, Week Ending 3 February 1900, cat. WASC 412).

where the cordite reels would have been transferred to a barge and transported to other parts of the site.¹⁷

The five partition walls, which are aligned north to south, and the central dividing wall, aligned east to west, are constructed of yellow brick laid in English bond. The interior brick walls were rendered in cement. The north and south walls are of timber and glass. The relatively insubstantial side walls and roof could be easily replaced in the event of an explosion.¹⁸ The corridors on the north and south sides were originally open. At their outer sides are a row of cast iron columns, upon which the principals of the roof trusses rest.

The roof is constructed of iron with bolted timber purlins and has a zinc covering.¹⁹ It has a double gable form, comprising four pairs of trusses. The inner principals rest on the central brick wall or, in the case of the easternmost main bay, on an RSJ. The outer principals extend lower to rest on the columns on the north and south sides, thereby creating a covering for the corridor. At the west side the iron roof extends to form a hipped roof over the tramway. The engine house at the east end is timber and has a lean-to roof.

The tie beams of the trusses carried a pair of steam pipes which ran the entire length of the building.²⁰ The tie beams of the trusses in the six reeling rooms also carried shafting for the reeling machinery. The machinery was secured to the floor with Lewis bolts.²¹ The floor may have been lead-covered²² and that of the engine house was concrete.²³ The building was lit both by side windows and skylights and by electric lighting.²⁴

By 1917 the building appears to have ceased functioning as a Reeling House and was used as a Women's Shifting Room and Landing Site.²⁵ In c1951 it was converted into laboratories.²⁶ The covered way beside the engine house appears to have

¹⁷ The reels may have been transported to magazines on the south site of the Gunpowder Factory and then off site for packing.

¹⁸ "A Handbook of the Manufacture and Proof of Gunpowder, as carried on at the Royal Gunpowder Factory, Waltham Abbey," by Captain F M Smith, Royal Artillery, Assistant Superintendent. London, 1870, p43.

¹⁹ Ledger c1908, cat. WASC 1509 (PRO, Hayes Repository).

²⁰ Drawing of Plan and Sections of Reeling House, Great Hoppit, RGPF Waltham Abbey, cat. H10.B.02 (MOD Central Disposals Unit, Chessington).

²¹ An undated and uncatalogued ink drawing of proposed Reeling House, Great Hoppit, (PRO, Hayes Repository).

²² The ledger of c1908 (cat. WASC 1509) states that the floor of the reeling house was lead-covered but an undated and uncatalogued drawing also at Hayes PRO shows a cement concrete floor (PRO, Hayes Repository).

²³ Ledger c1908, cat. WASC 1509 (PRO, Hayes Repository).

²⁴ Undated and uncatalogued ink drawing of proposed Reeling House, Great Hoppit (PRO, Hayes Repository).

²⁵ Site plan of Royal Gunpowder Factory at Waltham Abbey, 1:2500, as named 13 September 1917, revised March 1919 and March 1923, cat. WASC 900/84.

²⁶ Drawing dated 1/1/1951 showing benches for alterations to laboratories, cat. H10.B.01 (MOD Central Disposals Unit, Chessington).

been enclosed, using yellow brick in stretcher bond, at this date.²⁷ The open corridors on the north and south sides were enclosed in c1969.²⁸

Surveyed March 1993
Report by R L Burgess

²⁷ Plans dated 11/6/1951 for enclosure for rectifier at east end of the building, cat. H.10.B.06. (MOD Central Disposals Unit, Chessington).

²⁸ Drawing dated 16/5/1969 showing enclosure of verandahs on the building, cat. H10.B.09A (MOD Central Disposals Unit, Chessington).

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H11	OLD SERIES	RCHME NUMBER	N.G.R. TL 37640 00932
NAME/FUNCTION Solvent and chemical store		START DATE 1940?	END DATE 1992
NO PHOTOGRAPHY AVAILABLE			
<p>CARTOGRAPHIC DEPICTION</p> <p>>1940 WASC 900/91A 1954 A - B.34 ; H11 c1960 WASC 900/94 ; H11 c1963 WASC 900/97 ; H11 1972 WASC 900/102 ; H11 1972 WASC 900/104 ; H11 1976 WASC 900/113 ; H11</p>		<p>DOCUMENTARY REFERENCES</p> <p>1972 ERDE List ; Solvent and Chemical Store 1992 RARDE List ; Solvent and Chemical Store 1992 FBRC List ; H11 ?</p>	
<p>PHOTOGRAPHY HISTORIC</p>		<p>PHOTOGRAPHY RCHME</p> <p>1) 206/K/8 01 Feb 1993 Waste 206/K/9 01 Feb 1993 From East 206/S/32 17 Mar 1993 From East</p>	
<p>RELATIONSHIPS WITH OTHER MONUMENTS</p> <p>ASSOCIATED WITH:</p>			
<p>CONDITION Fair</p>			
<p>DESCRIPTION</p> <p>1) CONSTRUCTIONAL MATERIAL Concrete over corrugated iron sheeting</p> <p>2) ROOF MATERIALS AND STRUCTURE Concrete</p> <p>3) POWER SOURCE -</p> <p>4) DIMENSIONS i) L 9.1m ii) W 4.1m iii) HT 2.4m</p> <p>5) The structure is semi-circular in shape formed from cast concrete 6" in thickness over corrugated iron. The floor is also concrete into which is set a H girder along the centre line of the building.</p>			

Demolished 1993 July

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H12	OLD SERIES 231	RCHME NUMBER	N.G.R. TL 37630 00890
NAME/FUNCTION Cordite Reel Magazine No.1 Proof Stand	START DATE 1904 1947	END DATE 1947 198?	
NO PHOTOGRAPHY AVAILABLE			
<p>CARTOGRAPHIC DEPICTION</p> <p>c1910 WASC 900/65 ; 231 c1910 WASC 900/79 ; 231 1917 WASC 900/70 ; 231 1917 WASC 900/72 ; 231 1919 WASC 900/74 ; 231 c1920 WASC 900/80 ; 231 1923 WASC 900/84 ; 231 1932 WASC 900/87 ; 231 > 1940 WASC 900/91A ; 231 1954 A - B.34 ; H12 c1960 WASC 900/94 ; H12 c1963 WASC 900/97 ; H12 1972 WASC 900/102 ; H12 1972 WASC 900/104 ; H12 1976 WASC 900/113 ; H12</p>		<p>DOCUMENTARY REFERENCES</p> <p>1908 RGPF Ledger WASC 1509 + WASC 1764 ; Reel Magazine built 1904 p26 c1925 RGPF Ledger WASC 1680 ; Reel Magazine (H12) c1945 RGPF Ledger WASC 1508 ; Reel Magazine (H12)</p> <p>1946-50 H12 B01 - B13 Plans and Elevations 1947 'The Chemical Research and Development Department its Programme and Facilities CRDD 21 May 1947 (12 page internal document describes proof stand No.1) 1972 ERDE List ; Reel Magazine/Firing Point 1992 RARDE List ; Reel Magazine/Firing Point 1993 RCHME NBR No.91464</p>	

<p>PHOTOGRAPHY HISTORIC</p>	<p>PHOTOGRAPHY RCHME</p> <p>1) 206/I/25 01 Feb 1993 Detail along Eastern side 206/I/26 01 Feb 1993 East Firing Bay 206/I/27 01 Feb 1993 West Firing Bay 206/I/28 01 Feb 1993 from South West 206/I/29 01 Feb 1993 Safety Barrier 206/I/36 01 Feb 1993 From South East 206/S/18 17 Mar 1993 Firing Point from South 206/S/21 17 Mar 1993 Firing Point West side 206/S/22 17 Mar 1993 Firing Point West chamber 206/S/23 17 Mar 1993 Firing Point East side 206/S/24 17 Mar 1993 Firing Point East side 206/S/25 17 Mar 1993 Firing Point Rroof detail from South East 206/S/26 17 Mar 1993 Barrier to North Entrance from South 206/S/27 17 Mar 1993 Interior of Firing Point from North 206/S/28 17 Mar 1993 Showing Internal Northern wall 206/T/35 17 Mar 1993 Firing Point from South</p> <p>2) BB92/26046 H12 Cordite Reel Magazine/Firing Point from South East BB92/26047 H12 Cordite Reel Magazine East Chamber from South East BB92/26048 H12 Cordite Reel Magazine West Chamber from South West BB92/26049 H12 Cordite Reel Magazine West Chamber from South West BB92/26050 H12 Cordite Reel Magazine East passage from South West BB92/26051 H12 Cordite Reel Magazine West passage from North West BB92/26189 H12 Firing Bay, central Control and Observation room BB92/26357 H12 Drawing H12.B.01 Proof stand plan 12.April 1947 (Chessington)</p>
<p>RELATIONSHIPS WITH OTHER MONUMENTS</p> <p>ASSOCIATED WITH: primary H7, H8, H10 : secondary H14, H65</p>	
<p>CONDITION Fair</p>	
<p>DESCRIPTION</p> <p>1) CONSTRUCTIONAL MATERIAL Original structure brick in English bond, later additions concrete and breeze block</p> <p>2) ROOF MATERIALS AND STRUCTURE Central control room flat concrete slab, remainder corrugated iron over RSJs</p> <p>3) POWER SOURCE Electricity and steam heat</p> <p>4) DIMENSIONS i) L 17.05m ii) W 13.7m iii) HT 2.85m</p> <p>5) Historic artefacts - lights from firing bays, some of the controll room equipment and 'tub' with associated pipe work along eastern passage barriers.</p> <p>See attached RCHME Threatened Buildings Section report.</p>	

ROYAL COMMISSION ON THE HISTORICAL MONUMENTS OF ENGLAND

MOD Building No. H12
Reel Magazine
The Royal Gunpowder Factory
Waltham Abbey
Essex

NBR No: 91464
NGR: TL 37630 00890

Built in 1904 as a Reel Magazine for storing reels of cordite, this single storey building originally had a rectangular plan and is surrounded by a tall earth traverse. It is constructed of yellow brick laid in English bond.

By c1946 the building was converted into a Firing Point and the fabric was reinforced. It then had more of a U-shaped plan contained two firing rooms, two control rooms and a central command room, and contained monopropellant proof stand(s). Bunkers were added at the east and west sides.

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Building H12 was built in 1904 as a Reel Magazine.²⁹ It is situated on the Great Hopplit part of the Gunpowder Factory site, approximately 60 metres to the south of a Reeling House (H10) of the same date. North of that Reel House are a pair of Reel Drying Stoves (H7 and H8) which were also part of that same 1904 building phase. All these buildings relate to cordite production. After pressing, cordite would have been brought to the Reel Drying Stoves for drying, then taken to the Reeling House for winding strands of cordite, before being brought to this Reel Magazine for storage.

Constructed of yellow brick laid in English bond, the building is surrounded by a tall earth traverse. On the exterior of the traverse, a signal bridge gives access to an opening on the north-west side of the traverse to the building.³⁰

The building was originally rectangular in plan, 37'3" x 22'3" (approximately 11 x 6.5 m) with a projection, 16' x 8'3" (approximately 4.8 x 2.4 m) on the west side.³¹ The main rectangular block is single-storeyed, 13'9" (approximately 4 m) in height and had a gabled roof, and the projection was slightly lower and had a lean-to roof.³² The latter may have functioned as a shoe porch, like those in the contemporary buildings H7, H8 and H10, whereby special leather over-boots would have had to have been put on before entering the building to protect it from grit.³³ Heavy-duty lighting may belong to the original phase or may be secondary. The building was still used as a Reel Magazine by 1923.³⁴

²⁹ Ledger c1908, cat. WASC 1509 (PRO, Hayes Repository).

³⁰ The opening in the traverse is part of the original 1904 phase, and it is shown in the Ledger of c1908, but the actual signal bridge with its barrier may belong to a later phase, cat. WASC 1509 (PRO, Hayes Repository).

³¹ The building is aligned north-north-west to south-south-east but for clarity in this report it is described as if it was aligned north to south.

³² Ledger c1908, cat. WASC 1509 (PRO, Hayes Repository).

³³ Although describing the process carried out on a building on the south site of the Gunpowder Factory, an article in written in 1900 outlines how workers had to done these immense leather over-boots whilst standing on the shoe board, before they were permitted to cross the wooden barrier into the building. (The Penny Pictorial Magazine, No. 35, Vol. 3, Week Ending 3 February 1900, cat. WASC 412).

³⁴ Site plan of Royal Gunpowder Factory at Waltham Abbey, 1:2500, as named 13 September 1917, revised March 1919 and March 1923, cat. WASC 900/84.

In around 1946-8 the building was converted to a Firing Point and its fabric reinforced as a result.³⁵ In 1945 the Explosives Research and Development Establishment (ERDE) had taken over the site of the former Gunpowder Factory.³⁶ The Establishment was the sole Government laboratory responsible for research on, and development of, non-nuclear military explosives.³⁷ These were tested vigorously in a number of buildings on the whole of the site. It is not certain which types of explosives were tested in the former Reel Magazine but it is likely that they had less impact than some of the high explosives that had to be tested in specially designed structures, for example at the northern part of the site.³⁸

After conversion to a Firing Point in c1946-8, building H12 comprised two control rooms at its northern end, a central command room, with firing rooms on the east and west sides. Probably at this time the roof was replaced and the projection with lean-to roof was also removed or replaced. The command room and control rooms have a flat roof and the firing rooms are at the present time without roofs, although presumably they were covered originally. Bunkers were added on the exterior of the north and south sides. Looking onto the firing rooms, the sides of the command room and the south end of the control rooms have heavy-duty inspection windows for observing the explosions. Iron rails are positioned diagonally against the inner walls of the firing rooms. They are possibly part of the reinforcement of the building.³⁹ There are concrete beds in the firing rooms.

The firing area was later extended further southward by the addition of walls of red brick and breeze block.

Surveyed March 1993
Report by R L Burgess

³⁵ Drawings of ground floor plan and schedules of fabric and reinforcement, dated 12/4/1946, cat. H.12.B.01 (MOD Central Disposals Unit, Chessington). Drawings showing monopropellant proof stand and armour steel screen to motor, dated 21/6/1948, cat. H.12.B.12 (MOD Central Disposals Unit, Chessington).

³⁶ "The Explosives Research and Development Establishment, Waltham Abbey", Research Establishments in Europe: 48, reprinted from Chemistry and Industry, 1965, pp320-327.

³⁷ "The Explosives Research and Development Establishment, Waltham Abbey", Research Establishments in Europe: 48, reprinted from Chemistry and Industry, 1965, pp320-327.

³⁸ The various types of explosives are described in an article, "The Explosives Research and Development Establishment, Waltham Abbey", Research Establishments in Europe: 48, reprinted from Chemistry and Industry, 1965, pp320-327.

³⁹ A drawing dated 8/8/1947 shows a Proof Stand No. 1 and the position of these wall rails, cat. H12.B.06, (MOD Central Disposals Unit, Chessington).

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H13	OLD SERIES HE13/232a	RCHME NUMBER	N.G.R. TL 37600 00862
NAME/FUNCTION Narrow gauge Locomotive shed Metal store		START DATE 1916 1950?	END DATE 1950? 1992

NO PHOTOGRAPHY
AVAILABLE

CARTOGRAPHIC DEPICTION	DOCUMENTARY REFERENCES
1917 WASC 900/68 ; Engine House 1917 WASC 900/70 ; Locomotive House 1917 WASC 900/72 ; 232a 1919 WASC 900/74 ; 232a c1920 WASC 900/80 ; 232a 1923 WASC 900/84 ; 232a 1932 WASC 900/87 ; 232a > 1940 WASC 900/91A ; HE13 1954 A - B.34 ; H13 c1960 WASC 900/94 ; H13 c1963 WASC 900/97 ; H13 1972 WASC 900/102 ; H13 1972 WASC 900/104 ; H13 1976 WASC 900/113 ; H13	Plan; H13 B01 - 30/12/1961 ; Details of Engine House 1972 ERDE List ; Engine Shed/Metal Store 1992 RARDE List ; Engine Shed/Metal Store 1992 FBRC List ; Metal Store

PHOTOGRAPHY HISTORIC	PHOTOGRAPHY RCHME 1) 206/I/32 01 Feb 1993 From South East 206/S/19 17 Mar 1993 Narrow guage 18" Locomotive shed from South 206/T/36 17 Mar 1993 Locomotive shed from South 2) BB92/26042 H13 Narrow Guage Locomotive Shed & Metal store from South East BB92/26043 H13 Narrow Guage Locomotive Shed & Metal store interior from South East
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RELATIONSHIPS WITH OTHER MONUMENTS

ASSOCIATED WITH:

CONDITION Good

DESCRIPTION

- 1) CONSTRUCTIONAL MATERIAL
Brick
- 2) ROOF MATERIALS AND STRUCTURE
Slate over timber boards ???
- 3) POWER SOURCE
Electricity
- 4) DIMENSIONS i) L 10.25m ii) W 4.75m iii) HT 2.5m
- 5) Single storey narrow guage locomotive shed with gabled ends north and south an dthree double windows along either side. The building is entered from the south through hinged doors under a concrete lintel. Attached to the exterior wall to the left of the entrance is a metal contraband box. Inside two 18" guage rails survive insitu.

Historic artefacts: Small enamel sign on north wall.

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H14	OLD SERIES	RCHME NUMBER	N.G.R. TL 37660 00871
NAME/FUNCTION Store shed		START DATE 1960?	END DATE 1992
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION c1963 WASC 900/97 ; H14 1972 WASC 900/102 ; H14 1972 WASC 900/104 ; H14 1976 WASC 900/113 ; H14		DOCUMENTARY REFERENCES 1972 ERDE List ; Store Shed 1992 RARDE List ; Store Shed	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME 1) 206/l/30 01 Feb 1993 From South 206/K/10 01 Feb 1993 From South West 206/S/14 16 Mar 1993 From South West 206/S/15 16 Mar 1993 Waste 206/S/16 16 Mar 1993 Waste 206/S/17 17 Mar 1993 Waste	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: H12			
CONDITION Good			
DESCRIPTION 1) CONSTRUCTIONAL MATERIAL Breeze block 2) ROOF MATERIALS AND STRUCTURE Flat concrete slab 3) POWER SOURCE Electricity 4) DIMENSIONS i) L 4.7m ii) W 2.3m iii) HT 2.5m 5) A small breeze block building with double wooden doors on its south west side and a single wooden door to the north east.			

Demolished July 1993

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H15	OLD SERIES	RCHME NUMBER	N.G.R. TL 37620 01006
NAME/FUNCTION Air raid shelter Store glass technology		START DATE 1940?	END DATE 1992
NO PHOTOGRAPHY AVAILABLE			
<p>CARTOGRAPHIC DEPICTION</p> <p>>1940 WASC 900/91A 1954 A - B.34 ; H15 c1960 WASC 900/94 ; H15 c1963 WASC 900/97 ; H15 1972 WASC 900/102 ; H15 1972 WASC 900/104 ; H15 1976 WASC 900/113 ; H15</p>		<p>DOCUMENTARY REFERENCES</p> <p>1972 ERDE List ; Concrete Air Raid Shelter 1992 RARDE List ; Concrete Air Raid Shelter</p>	
<p>PHOTOGRAPHY HISTORIC</p>		<p>PHOTOGRAPHY RCHME</p> <p>1) 206/K/11 01 Feb 1993 From South 206/I/31 01 Feb 1993 From South 206/S/12 16 Mar 1993 Air Raid Shelter from South West</p>	
<p>RELATIONSHIPS WITH OTHER MONUMENTS</p> <p>ASSOCIATED WITH:</p>			
<p>CONDITION Good</p>			
<p>DESCRIPTION</p> <p>1) CONSTRUCTIONAL MATERIAL Concrete</p> <p>2) ROOF MATERIALS AND STRUCTURE Flat 9" concrete slab</p> <p>3) POWER SOURCE Electricity</p> <p>4) DIMENSIONS i) L 9.23m ii) W 5.2m iii) HT 2.44m</p> <p>5) Concrete air raid shelter with two staggered entrances on the south side. Traces of wavy camouflage paint remain on the exterior.</p>			

Demolished July 1993

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H16	OLD SERIES 246a	RCHME NUMBER	N.G.R. TL 37620 01006
NAME/FUNCTION Press House No.10 Cordite Press House Electronics glass blowers heat transfer		START DATE 1916 1950?	END DATE 1950?
NO PHOTOGRAPHY AVAILABLE			
<p>CARTOGRAPHIC DEPICTION</p> <p>1916 WASC 900/66a ; Cordite Press House 1917 WASC 900/68 ; Cordite Press House 1917 WASC 900/70 ; 246a 1917 WASC 900/72 ; 246a 1919 WASC 900/74 ; 246a c1920 WASC 900/80 ; 246a 1923 WASC 900/84 ; 246a 1932 WASC 900/87 ; 246a >1940 WASC 900/91A 1954 A - B.34 ; H16 c1960 WASC 900/94 ; H16 c1963 WASC 900/97 ; H16 1972 WASC 900/102 ; H16 1972 WASC 900/104 ; H16 1976 WASC 900/113 ; H16</p>		<p>DOCUMENTARY REFERENCES</p> <p>c1925 RGPF Ledger WASC 1680 ; Press House No.10 c1945 RGPF Ledger WASC 1508 ; Press House No.10</p> <p>Plans; H16 B01 - B43 ; Plan and Elevations 1916 to 1975</p> <p>1938 Text Book of Explosives 1938 H.M.S.O ChpXV p99-111 Figs 15.2-9</p> <p>1972 ERDE List ; Cordite Press House 1992 RARDE List ; Cordite Press House</p>	
<p>PHOTOGRAPHY HISTORIC</p>		<p>PHOTOGRAPHY RCHME 1) 206/S/11 16 Mar 1993 Site of used for Waste Sorting 206/H/7 02 Feb 1993 From South waste dump over</p>	
<p>RELATIONSHIPS WITH OTHER MONUMENTS</p> <p>ASSOCIATED WITH:</p>			
<p>CONDITION Demolished</p>			
<p>DESCRIPTION</p> <p>The building has been demolished, the concrete floor slab at the time of survey was being used for the storage of contaminated waste and was therefore unavailable for inspection.</p>			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H17	OLD SERIES	RCHME NUMBER	N.G.R. TL 37620 01006
NAME/FUNCTION Sewer pump house		START DATE 1960?	END DATE 1992
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION c1960 WASC 900/94 c1963 WASC 900/97 ; H17 1972 WASC 900/102 ; H17 1972 WASC 900/104 ; H17 1976 WASC 900/113 ; H17		DOCUMENTARY REFERENCES 1972 ERDE List ; Sewer Pump House 1992 RARDE List ; Sewer Pump House	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME 1) 206/H/10 02 Feb 1993 From 206/T/3 17 Mar 1993 From South West	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: H31, L126, L170			
CONDITION Good			
DESCRIPTION 1) CONSTRUCTIONAL MATERIAL Brick 2) ROOF MATERIALS AND STRUCTURE Roofing felt over timbers boards supported on a RSJ 3) POWER SOURCE Electricity 4) DIMENSIONS i) L 4.32m ii) W 3.4m iii) HT 2.85m 5) The rectangular brick pump house is set on a small earthen mound. The building is entered through a single blue door on the west side and is lit by a window on the north side. Inside the building the two pumps remain.			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H19	OLD SERIES 261a	RCHME NUMBER	N.G.R. TL 37650 00750
NAME/FUNCTION Womens Shifting & Dining Room Shifting and Dining House		START DATE 1914-18?	END DATE 1970?
NO PHOTOGRAPHY AVAILABLE			
<p>CARTOGRAPHIC DEPICTION</p> <p>1919 WASC 900/74 c1920 WASC 900/80 1923 WASC 900/84 ; 261a 1932 WASC 900/87 ; 261a > 1940 WASC 900/91A ; H19 1954 A - B.34 ; H19 c1960 WASC 900/94 ; H19 c1963 WASC 900/97 ; H19</p>		<p>DOCUMENTARY REFERENCES</p> <p>c1925 RGPF Ledger WASC 1680 ; Womens Shifting & Dining Room c1945 RGPF Ledger WASC 1508 ; Womens Shifting & Dining Room 1972 ERDE List ; Shifting and Dining Room 1992 RARDE List ; Shifting and Dining Room</p>	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS			
ASSOCIATED WITH:			
CONDITION Demolished			
<p>DESCRIPTION</p> <p>5) No surface remains are visible.</p>			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H21	OLD SERIES	RCHME NUMBER	N.G.R. TL 37680 00755
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NAME/FUNCTION Magazine	START DATE 1957?	END DATE
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NO PHOTOGRAPHY

AVAILABLE

CARTOGRAPHIC DEPICTION

1954 A - B.34
 c1960 WASC 900/94 ; H21
 c1963 WASC 900/97 ; H21
 1972 WASC 900/102 ; H21
 1972 WASC 900/104 ; H21
 1976 WASC 900/113 ; H21

DOCUMENTARY REFERENCES

Plans;
 H21 B01 -B02 Plans and Elevations 1982
 1972 ERDE List ; Magazine
 1992 RARDE List ; Magazine

PHOTOGRAPHY
HISTORIC

PHOTOGRAPHY
RCHME
 1) 206/H/9 02 Feb 1993 From South East
 206/T/2 17 Mar 1993 From South East

RELATIONSHIPS WITH OTHER MONUMENTS

ASSOCIATED WITH: H10

CONDITION Good

DESCRIPTION

- 1) CONSTRUCTIONAL MATERIAL
Brick
- 2) ROOF MATERIALS AND STRUCTURE
Corrugated translucent plastic
- 3) POWER SOURCE
Electricity
- 4) DIMENSIONS i) L 1.9m ii) W 1.9m iii) HT 2.7m
- 5) The building is square with a single red door on the eastern side shielded by a brick wall 4.3m in length and 2.3m high. The building is protected by a lightning conductor. At the building the path to H10 may be closed by a red and white plastic chain.

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H21/1	OLD SERIES	RCHME NUMBER	N.G.R. TL 37780 00757
NAME/FUNCTION Building		START DATE post 1945	END DATE by 1972
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION 1960 Drg NoLSG/8: H21 1967 O.S. Plan TL 3700 NE		DOCUMENTARY REFERENCES	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: H22			
CONDITION Demolished			
DESCRIPTION 1) CONSTRUCTIONAL MATERIAL 2) ROOF MATERIALS AND STRUCTURE 3) POWER SOURCE 4) DIMENSIONS i) L ii) W iii) HT 5) The number H21 was re-allocated to a later building.			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H22	OLD SERIES	RCHME NUMBER	N.G.R. TL 37680 00742
NAME/FUNCTION Building	START DATE post 1945		END DATE by 1967
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION 1960 Drg No LSG/8; H22		DOCUMENTARY REFERENCES	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: H21			
CONDITION Demolished			
DESCRIPTION 1) CONSTRUCTIONAL MATERIAL 2) ROOF MATERIALS AND STRUCTURE 3) POWER SOURCE 4) DIMENSIONS i) L ii) W iii) HT 5) No surface remains of this building were seen.			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H23	OLD SERIES 272A	RCHME NUMBER	N.G.R. TL 37676 00718
NAME/FUNCTION Work takers office Storage shed		START DATE 1918	END DATE

NO PHOTOGRAPHY
AVAILABLE

CARTOGRAPHIC DEPICTION	DOCUMENTARY REFERENCES
1917 WASC 900/70 ; Work Takers Office 1917 WASC 900/72 ; 272a 1919 WASC 900/74 ; 272a c1920 WASC 900/80 ; 272a 1923 WASC 900/84 ; 272a 1932 WASC 900/87 ; 272a >1940 WASC 900/91A ; H23 1954 A - B.34 c1960 WASC 900/94 ; H23 c1963 WASC 900/97 ; H23 1972 WASC 900/102 ; H23 1972 WASC 900/104 ; H23 1976 WASC 900/113 ; H23	c1925 RGPf Ledger WASC 1680 ; Work Takers Office c1945 RGPf Ledger WASC 1508 ; Work Takers Office 1972 ERDE List ; Storage Shed 1992 RARDE List ; Storage Shed

PHOTOGRAPHY HISTORIC	PHOTOGRAPHY RCHME 1) 206/H/5 02 Feb 1993 From South East 206/S/1 16 Mar 1993 From South East
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RELATIONSHIPS WITH OTHER MONUMENTS

ASSOCIATED WITH:

CONDITION Good

DESCRIPTION

- 1) CONSTRUCTIONAL MATERIAL
Brick
- 2) ROOF MATERIALS AND STRUCTURE
Roofing felt over timber boards
- 3) POWER SOURCE
Electricity
- 4) DIMENSIONS i) L 10.7m ii) W 4.1m iii) HT gable 3.9m
- 5) A single storey brick gabled building, the building was entered from the eastern side through a single door flanked on either side by small windows. The building is lit by a row of windows on the north and south sides and a window on the west side. There is a further door into the rear of the building on the south side.

Demolished July 1973

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H24	OLD SERIES 273A	RCHME NUMBER	N.G.R. TL 37630 00712
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NAME/FUNCTION Sewage pump house	START DATE 1916	END DATE 1992
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NO PHOTOGRAPHY
AVAILABLE

<p>CARTOGRAPHIC DEPICTION</p> <p>1917 WASC 900/70 ; Pump 1917 WASC 900/72 ; 273a 1919 WASC 900/74 ; 273a c1920 WASC 900/80 ; 273a 1923 WASC 900/84 ; 273a 1932 WASC 900/87 ; 273a > 1940 WASC 900/91A ; 273a 1954 A - B.34 ; H24 c1960 WASC 900/94 ; H24 c1963 WASC 900/97 ; H24 1972 WASC 900/102 ; H24 1972 WASC 900/104 ; H24 1976 WASC 900/113 ; H24</p>	<p>DOCUMENTARY REFERENCES</p> <p>Plan; H24 B01 - 1916 ; Drawing Great Hoppit - Details of Sewage Tank Pump 1972 ERDE List ; Sewage Pump House 1992 RARDE List ; Sewage Pump House</p>
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<p>PHOTOGRAPHY HISTORIC</p>	<p>PHOTOGRAPHY RCHME 1) 206/I/37 01 Feb 1993 From South East 206/S/3 16 Mar 1993 From North East</p>
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RELATIONSHIPS WITH OTHER MONUMENTS

ASSOCIATED WITH:

CONDITION Good

DESCRIPTION

- 1) CONSTRUCTIONAL MATERIAL
Brick
- 2) ROOF MATERIALS AND STRUCTURE
Flat concrete slab
- 3) POWER SOURCE
Electricity
- 4) DIMENSIONS i) L 2.58m ii) W 2.57m iii) HT 2.45m
- 5) The pump house is a small brick building with a single door on the north side.

Demolished July 1993

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H25	OLD SERIES 275b	RCHME NUMBER	N.G.R. TL 37660 00665
NAME/FUNCTION Womens Hospital Flats		START DATE 1916 1947	END DATE 1947

NO PHOTOGRAPHY
AVAILABLE

<p>CARTOGRAPHIC DEPICTION</p> <p>1916 WASC 900/66a ; Hospital and Extension 1916 WASC 900/67a ; Hospital and Extension 1917 WASC 900/68 ; Womens Hospital 1917 WASC 900/70 ;Womens Hospital (Remains of) 1917 WASC 900/72 ; 275b 1919 WASC 900/74 ; 275b c1920 WASC 900/80 ; 275b 1923 WASC 900/84 ; 275b 1932 WASC 900/87 ; 275b > 1940 WASC 900/91A ; H25 1954 A - B.34 ; H25 c1960 WASC 900/94 ; H25 c1963 WASC 900/97 ; H25 1972 WASC 900/102 ; H25 1972 WASC 900/104 ; H25 1976 WASC 900/113 ; H25</p>	<p>DOCUMENTARY REFERENCES</p> <p>c1925 RGPF Ledger WASC 1680 ; Womens Hospital c1945 RGPF Ledger WASC 1508 ; Womens Hospital</p> <p>Plans; H25 B01 - B16 ; Plan and Elevations 1916 to 1947</p> <p>1972 ERDE List ; Old Surgery/Womens Hospital 1992 RARDE List ; Old Surgery/Womens Hospital</p> <p>1993 RCHME NO.91450</p>
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<p>PHOTOGRAPHY HISTORIC WASC 1350 Sandhurst Hospital</p>	<p>PHOTOGRAPHY RCHME</p> <p>1) 206/H/1 02 Feb 1993 Womens Hospital from South East 206/S/5 16 Mar 1993 Womens Hospital from South East</p> <p>2) BB92/26039 H25 Womens Hospital view from North West BB92/26040 H25 Womens Hospital view from North East BB92/26041 H25 Womens Hospital view from South East BB92/26228 H25 Interior of Womens Hospital Ground floor North West room,view from West. BB92/26229 H25 Interior of Womens Hospital view of stairs from first floor landing from South.</p>
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<p>RELATIONSHIPS WITH OTHER MONUMENTS</p> <p>ASSOCIATED WITH: H25a, H26</p>
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<p>CONDITION Fair</p>

Demolished July 1993

DESCRIPTION

- 1) CONSTRUCTIONAL MATERIAL
Weather board over timber frame
- 2) ROOF MATERIALS AND STRUCTURE
Abestos? tiles
- 3) POWER SOURCE
Electricity
- 4) DIMENSIONS i) L 12m ii) W 10.3m iii) HT estimate 6m
- 5) See attached RCHME Threatened Buildings Section report

ROYAL COMMISSION ON THE HISTORICAL MONUMENTS OF ENGLAND

MOD Building No. H25
Women's Hospital
The Royal Gunpowder Factory
Waltham Abbey
Essex

NBR No: 91450
NGR: TL 37660 00665

Built in 1916-17 as the Women's Hospital on site at the Royal Gunpowder Factory, building number H25 is a wood-framed building with a weatherboard exterior. It originally had a Y-shaped plan and comprised a two-storeyed rectangular main range with a pair of single-storey wards at the rear.

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The Women's Hospital is situated approximately 25 metres to the west of the other hospital on site at the Gunpowder Factory, the Sandhurst Hospital (H26).

Built in c1916-17, it originally had a Y-shaped plan which comprised a main two-storeyed range and two single-storey wings projecting on the south-west and north-west sides.⁴⁰ Only the central two-storeyed range survives. It is 12 x 10.3 metres in plan, and approximately six metres to the gable.

Entered through a doorway on the east front, the ground floor of the main range contains an entrance hall (approximately 1.5 metres wide), with two main rooms on each side. The heated south-east front room was the nurses' sitting room. West of this is an unheated room which functioned as a "dark room", and toward the south-west end of the hall there are toilets, a bathroom, linen stores and cupboards. On the north side of the entrance hall is a north-east front room which was a kitchen and had a range on its north wall. Entered by both the hall and the kitchen, an unheated room on the west side of the kitchen was the scullery. It contains a larder, sink and hot water system and there is a on its north wall is a back door. West of the scullery is a staircase to the first floor. The north-west room, which is of one storey and has a flat roof with skylights, was the operating room.

The six rooms on the first floor were three nurses bedrooms, matron's bedroom, servants bedroom and bathroom.

The single-storeyed western end of the building has been demolished. At the end of the main entrance hall there was a corridor leading to a ward in each of the two wings. On the west side of the corridor was a nurses duty room which had inspection windows looking out to the wards on the north and south sides. Each ward contained four beds and had, on the east side, a verandah, lobby and wc.

A wood-framed building with a weatherboard exterior, the Women's Hospital has a concrete plinth around the east, south and north sides. The roof is of standard rafter construction, with no trusses, and has plain timber bargeboards and tile coverings on the exterior.

The entrance door is set back beyond an arched frame which is flush with the house front. The windows and entrance arch have flat hoods with moulded corbels. The windows for the ward wings were double-hung sashes.

The staircase on the north side of the entrance hall is a dog-leg stair with winders. It has plain balusters and newels posts and a rounded handrail against the wall, following the rise of the stairs. The stair is lit by a pair of six-panelled windows. Most of the fireplaces in the building appear to have had bead and reel decoration.

⁴⁰

Plans and Elevations of Women's Hospital, dated 31/7/1916, cat. H25.B.02 (MOD Central Disposals Unit, Chessington).

The building ceased to be used as a hospital around the middle of this century. Plans dated 1947 show a proposed conversion of the building, including the wards, into four flats.⁴¹ The removal of the western wings did not take place until some time after 1972.⁴²

A separate brick structure on the north side of the house is divided into four sheds with four doors on its south side. It appears to be secondary and probably functioned as a coal store and general shed.

Main Reference: Plans and Elevations of Women's Hospital, dated 31/7/1916, cat. H25.B.02 (MOD Central Disposals Unit, Chessington).

Surveyed March 1993
Report by R L Burgess

⁴¹ Plan showing proposed conversion of the hospital into four flats, dated 20/1/1947 (amended 25/1/1947, cat. H25.B.16 (MOD Central Disposals Unit, Chessington).

⁴² Map of "ERDE Waltham Abbey", North site; scale 1:2500, April 1972.

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
NUMBER H25a	OLD SERIES	RCHME NUMBER	N.G.R. TL 37650 00681
NAME/FUNCTION Toilet block		START DATE 1916	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME 1) 206/H/4 02 Feb 1993 From South West 206/S/4 16 Mar 1993 From East	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: H25			
CONDITION Fair			
<p>DESCRIPTION</p> <p>1) CONSTRUCTIONAL MATERIAL Brick</p> <p>2) ROOF MATERIALS AND STRUCTURE Roofing felt over timber boards</p> <p>3) POWER SOURCE None</p> <p>4) DIMENSIONS i) L 6.2m ii) W 2.95m iii) HT 3.2m</p> <p>5) Small single gabled toilet block, four single doors on the south side. The western cubicle retains an ash pit while the others are floored. There is a single door on the rear of the building at the western end.</p>			

Demolished July 1993

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H26	OLD SERIES	RCHME NUMBER	N.G.R. TL 37678 00669
NAME/FUNCTION Sandhurst Hospital Flats		START DATE 1894 1947?	END DATE 1947?

NO PHOTOGRAPHY
AVAILABLE

<p>CARTOGRAPHIC DEPICTION</p> <p>1897 WASC 900/53C c1910 WASC 900/65 ; Hospital c1910 WASC 900/79 ; Hospital 1917 WASC 900/70 ; Mens Hospital 1917 WASC 900/72 ; Mens Hospital 1919 WASC 900/74 ; 276 c1920 WASC 900/80 ; 276 1923 WASC 900/84 ; 276 1932 WASC 900/87 ; 276 >1940 WASC 900/91A ; 276 1954 A - B.34 ; H26 c1960 WASC 900/94 ; H26 c1963 WASC 900/97 ; H26 1972 WASC 900/102 ; H26 1972 WASC 900/104 ; H26 1976 WASC 900/113 ; H26</p>	<p>DOCUMENTARY REFERENCES</p> <p>1908 RGPF Ledger WASC 1509 + WASC 1764 ; Hospital built 1895 p31 c1925 RGPF Ledger WASC 1680 ; Hospital (H26) c1945 RGPF Ledger WASC 1508 ; Hospital</p> <p>Plans; H26 B01 - B05 Plans and Elevations 1894 to 1949</p> <p>1972 ERDE List ; Residential/Old Sandhurst Hospital 1992 RARDE List ; Residential/Old Sandhurst Hospital</p> <p>1993 RCHME NBR No.91449</p>
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<p>PHOTOGRAPHY HISTORIC</p> <p>1) Strand Magazine 1895</p> <p>2) PRO Supply 5/860 104 189? Eastern elevation</p>	<p>PHOTOGRAPHY RCHME</p> <p>1) 206/H/2 02 Feb 1993 Sandhurst Hospital from South 206/N/12 12 Mar 1993 Sandhurst Hospital from South East 206/S/6 16 Mar 1993 Sandhurst Hospital 1894 plaque 206/S/7 16 Mar 1993 Sandhurst Hospital from South East</p> <p>2) BB92/26037 H26 Sandhurst Hospital built 1894 view from South West BB92/26038 H26 Sandhurst Hospital built 1894 view from South East BB92/26230 H26 Sandhurst Hospital 1894 Interior,ground floor North room,view from West.</p>
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<p>RELATIONSHIPS WITH OTHER MONUMENTS</p> <p>ASSOCIATED WITH: H25</p>

<p>CONDITION Good</p>

DESCRIPTION

- 1) CONSTRUCTIONAL MATERIAL
Brick
- 2) ROOF MATERIALS AND STRUCTURE
Tile
- 3) POWER SOURCE
Electricity
- 4) DIMENSIONS i) L 17.4m ii) W 13.1m iii) HT estimate 7m
- 5) A terracotta plaque on the east wall has the following legend 'Sandhurst Hospital 1894'.
See attached RCHME Threatened Buildings Section report.

ROYAL COMMISSION ON THE HISTORICAL MONUMENTS OF ENGLAND

MOD Building No. H26
Sandhurst Hospital
The Royal Gunpowder Factory
Waltham Abbey
Essex

NBR No: 91449
NGR: TL 37678 00669

The Sandhurst Hospital was built in 1894 as a short-stay surgery for injured workmen at the Royal Gunpowder Factory. It contained two wards, containing six or seven beds in total, three nurses' rooms, a cook's room, a kitchen, a scullery, and a store. The building is constructed of yellow brick with red brick bands, and has a timber verandah and timber trussed gables. It has a T-shaped plan, the central part of which rises to two storeys.

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Named after Lord Sandhurst, who officially opened the building shortly after it was completed in 1894,⁴³ the new hospital was described in 1895 as standing "... close to one of the myriad streams that intersect the vast grounds of the factory, and is intended solely for the benefit of injured workmen".⁴⁴

T-shaped in plan, the overall dimensions of the building are 17.4 x 13.1 metres. The height of the central two-storeyed block is approximately seven metres. Behind a verandah on the east side of the building, the main entrance led to a lobby which, in turn, led to the ground floor rooms and to stairs to the first floor. On the south side of the lobby is a heated room which was the nurse's room, with a window on its south wall for viewing a ward at the southern end of the building. This ward, which contained four beds, has a fireplace on its north wall and a projection off its west side for a sink and earth closet. A heated room on the north-east side of the lobby was a ward for two or three beds. The projecting western side of the building contains rooms which were originally a kitchen, a cook's room, a scullery, a bathroom and a store. At the north-west end of the lobby is a straight staircase with winders at the top and bottom. Beside the stair is a back door leading to an outside earth closet and sink.

The first floor rooms were two nurses' rooms, only the south one of which was heated, and a linen closet.

The building is constructed of yellow brick which is laid in English bond except in the western projections, at the back of the building, where the bricks are in Flemish bond. There is a plinth of chamfered black brick and above, at approximately one metre up from the ground level, a band of red brick. On the east front are two further bands of red brick below the eaves. The windows have cambered heads of rubbed red-brick and chamfers to the bricks at the sides.

Timber features in the building include posts of the verandah, which are of chamfered timber with moulded timber braces, trussed gables at the south sides of the east and west elevations, and the staircase which has turned newel posts and plain balusters. The doors are four-panelled.

The roof, which is tile-covered, has gables at the north and south ends, a lean-to for the verandah, and hips for both the projection at the centre of the west elevation and the two-storeyed block.

Later alterations to the building relate to its conversion to two dwellings. The main entrance doorway on the east elevation was blocked, and a new doorway inserted on the west elevation for the new dwelling at the south end. The dwelling at the northern end of the building, which included the first floor rooms, was entered both by the original back door on the north side and by

43

A stone plaque on the east front reads 'Sandhurst Hospital 1894'.

44

"How Explosives are Made" by William G. Fitzgerald, The Strand Magazine, Vol IX Jan-June 1895.

double doors which were inserted in place of a three-light window on the east elevation.

References

• Drawings of plans and elevations of Cottage Hospital, Waltham Abbey, dated 1893 - H-26/2 and H26/3 (cat. H26.B.04), MOD Central Disposals Unit, Chessington.

Surveyed March 1993
Report by R L Burgess

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H28	OLD SERIES 286	RCHME NUMBER	N.G.R. TL 37663 00629
NAME/FUNCTION Coal Yard & Latrines		START DATE	END DATE by 1967
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION 1886 WASC/38; Coalyard c1900 WASC/79; Firestation 1923 WASC/84; Coalyard & Latrines 1954 A-B.35; H28 1960 Drg No LSG/9; Concrete Base & Latrines		DOCUMENTARY REFERENCES 1908 RGPF Ledger WASC 1509 + WASC 1764; EC built 1903 p32	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH:			
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 H29	OLD SERIES 287	RCHME NUMBER	N.G.R. TL 37685 00608
NAME/FUNCTION Surgery		START DATE 1872	END DATE by 1972
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION c1900 WASC 900/79; Surgery 1923 WASC 900/84; 287 Surgery 1954 A-B.35; H29 1960 Drg No LJG/9; H29 1967 O.S. No LGJ/9; H29		DOCUMENTARY REFERENCES 1900 RGPF Ledger WASC 1509 Surgery built 1872 p32	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH:			
CONDITION Demolished			
DESCRIPTION 1) CONSTRUCTIONAL MATERIAL 2) ROOF MATERIALS AND STRUCTURE 3) POWER SOURCE 4) DIMENSIONS i) L ii) W iii) HT 5) No surface remains. Inspection of service trench in the rear indicates that upto 1m of rubble may be heaped over the site of the surgery.			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H30	OLD SERIES	RCHME NUMBER	N.G.R. TL 37604 00867
NAME/FUNCTION Solvent store		START DATE 1970?	END DATE 1992
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
1972	WASC 900/102 ; H30	1972	ERDE List ; Solvent Store
1972	WASC 900/104 ; H30	1992	RARDE List ; Solvent Store
1976	WASC 900/113 ; H30		
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME 1) 206/I/33 01 Feb 1993 From East 206/S/20 17 Mar 1993 From East	
RELATIONSHIPS WITH OTHER MONUMENTS			
ASSOCIATED WITH:			
CONDITION Fair			
DESCRIPTION			
1)	CONSTRUCTIONAL MATERIAL Corrugated iron over steel frame		
2)	ROOF MATERIALS AND STRUCTURE Corrugated iron		
3)	POWER SOURCE None		
4)	DIMENSIONS i) L 4.1m ii) W 2.2m iii) HT 2.1m		
5)	Small rectangular store with metal mesh gate to east.		

Demolished July 1993

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H31	OLD SERIES	RCHME NUMBER	N.G.R. TL 37675 00795
NAME/FUNCTION Sewer pump house		START DATE 1956	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
c1963	WASC 900/97 ; H31	Plans;	
1972	WASC 900/102 ; H31	H66	B01 - B02 Plans and Elevations 1950 to 1951
1972	WASC 900/104 ; H31		
1976	WASC 900/113 ; H31	1972	ERDE List ; Sewer Pump House
		1992	RARDE List ; Sewer Pump House
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
		1) 206/H/6 02 Feb 1993 From South West 206/S/2 16 Mar 1993 From North East	
RELATIONSHIPS WITH OTHER MONUMENTS			
ASSOCIATED WITH: H17, L126, L170			
CONDITION Good			
DESCRIPTION			
1)	CONSTRUCTIONAL MATERIAL Brick		
2)	ROOF MATERIALS AND STRUCTURE Roofing felt over timber boards		
3)	POWER SOURCE Electricity		
4)	DIMENSIONS i) L 4.4m ii) W 3.5m iii) HT 2.79m		
5)	The pump house is a small rectangular building set on a low earthen mound. The building is entered through a single door on the north side.		

Demolished July 1993

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H32	OLD SERIES	RCHME NUMBER	N.G.R. TL 37608 00928
NAME/FUNCTION Portacabin offices	START DATE 198?	END DATE	
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION	DOCUMENTARY REFERENCES 1972 ERDE List ; Portacabin Offices 1992 RARDE List ; Portacabin Offices		
PHOTOGRAPHY HISTORIC	PHOTOGRAPHY RCHME		
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: H10			
CONDITION	Good		
DESCRIPTION Modern portacabin not described.			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
NUMBER H37	OLD SERIES	RCHME NUMBER	N.G.R. TL 37692 00591
NAME/FUNCTION Old police gate house		START DATE 1964	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION > 1940 WASC 900/91A ; H37? 1954 A - B.34 ; H37 c1960 WASC 900/94 ; H37 c1963 WASC 900/97 ; H37 1972 WASC 900/102 ; H37 1972 WASC 900/104 ; H37 1976 WASC 900/113 ; H37		DOCUMENTARY EVIDENCE Plans; H37 B01 - B09 Plans and Elevations 1963 to 1971 1972 ERDE List ; Old Police Gatehouse 1992 RARDE List ; Old Police Gatehouse	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME 1) 206/S/10 16 Mar 1993 Police lodge from North	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH:			
CONDITION Fair			
DESCRIPTION 1) CONSTRUCTIONAL MATERIAL Brick 2) ROOF MATERIALS AND STRUCTURE Flat concrete roof 3) POWER SOURCE Electricity 4) DIMENSIONS i) L 7.3m ii) W 5.93m iii) HT 2.7m 5) L shaped building, all the opening were boarded over at the time of survey.			

Demolished July 1993

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
NUMBER H38	OLD SERIES	RCHME NUMBER	N.G.R. TL 37677 00586
NAME/FUNCTION Old gas meter house		START DATE 1963	END DATE 1992?
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION c1960 WASC 900/94 ; H38 c1963 WASC 900/97 ; H38 1972 WASC 900/102 ; H38 1972 WASC 900/104 ; H38 1976 WASC 900/113 ; H38		DOCUMENTARY REFERENCES 1972 ERDE List ; Old Gas Meter House 1992 RARDE List ; Old Gas Meter House	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME 1) 206/K/12 01 Feb 1993 From South West 206/S/8 16 Mar 1993 From East	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH:			
CONDITION Fair			
DESCRIPTION 1) CONSTRUCTIONAL MATERIAL Brick 2) ROOF MATERIALS AND STRUCTURE Flat concrete slab 3) POWER SOURCE Electricity and gas 4) DIMENSIONS i) L 3.9m ii) W 2.45m iii) HT 2.8m 5) Single storey valve house with a single blue door on the eastern side.			

Demolished July 1993

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
NUMBER H54	OLD SERIES	RCHME NUMBER	N.G.R. TL 37673 00909
NAME/FUNCTION Building		START DATE Post 1945	END DATE by 1967
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION 1960 Drg No LSG/8; H54		DOCUMENTARY REFERENCES	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH:			
CONDITION Demolished			
DESCRIPTION 1) CONSTRUCTIONAL MATERIAL 2) ROOF MATERIALS AND STRUCTURE 3) POWER SOURCE 4) DIMENSIONS i) L ii) W iii) HT 5) No surface remains of this building were seen.			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H64	OLD SERIES	RCHME NUMBER	N.G.R. TL 37673 00909
NAME/FUNCTION Process Water Supply To Building H12		START DATE 1948?	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION 1972 WASC 900/102 ; H64 1972 WASC 900/104 ; H64		DOCUMENTARY REFERENCES Plans; H64 B01 - B03 Plans and Elevations 1948	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH:			
CONDITION Demolished			
DESCRIPTION 5) No surface remains			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H65	OLD SERIES	RCHME NUMBER	N.G.R. TL 37592 00900
NAME/FUNCTION Liquid fuel magazine		START DATE 1949	END DATE 1992
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION 1972 WASC 900/102 ; H65 1972 WASC 900/104 ; H65 1976 WASC 900/113 ; H65		DOCUMENTARY REFERENCES Plan; H65 B01 - 18/4/1949 ; Layout of Dithekite Store 1972 ERDE List ; Small Concrete Shelter 1992 RARDE List ; Locker Magazine	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME 1) 206/I/34 01 Feb 1993 From South 206/T/37 17 Mar 1993 From South East	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: H12			
CONDITION Good			
DESCRIPTION 1) CONSTRUCTIONAL MATERIAL Breeze block 2) ROOF MATERIALS AND STRUCTURE Corrugated asbestos 3) POWER SOURCE None 4) DIMENSIONS i) L 3.3m ii) W 1.9m iii) HT 2.5m 5) The fuel magazine is a small rectangular breeze block structure with an entrance on the northern side, set within an earthen mound.			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H66	OLD SERIES	RCHME NUMBER	N.G.R. TL 37640 00924
NAME/FUNCTION Locker Magazine		START DATE 1950?	END DATE 1992
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION c1960 WASC 900/94 ; H66 c1963 WASC 900/97 ; H66 1972 WASC 900/102 ; H66 1972 WASC 900/104 ; H66 1976 WASC 900/113 ; H66		DOCUMENTARY REFERENCES Plans; H66 B01 - B02 ; Plans and Elevations 1950 to 1951 1972 ERDE List ; Locker Magazine 1992 RARDE List ; Locker Magazine	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME 1) 206/K/3 01 Feb 1993 From South West 206/K/7 01 Feb 1993 North side from West 206/S/29 17 Mar 1993 Locker Magazine Interior from West 206/S/31 17 Mar 1993 Locker Magazine from North East 2) BB92/26044 From North West	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: H10			
CONDITION Good			
DESCRIPTION 1) CONSTRUCTIONAL MATERIAL Brick 2) ROOF MATERIALS AND STRUCTURE Corrugated abestos 3) POWER SOURCE Electricity 4) DIMENSIONS i) L 9.8m ii) W 2.6m iii) HT Gable 3.05m 5) The magazine is brick built with gabled ends. The magazine was entered through single doors painted red at either end of the northern side. Adjacent to each door on the outside of the building is a small shelf. The building is protected by a copper lightning conductor. Internally are six magazine lockers along the northern side of the building.			

Demolished July 1993

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H67a,b,c	OLD SERIES	RCHME NUMBER	N.G.R. TL 37560 01165
NAME/FUNCTION Ballistics Laboratory Mechanical testing areas		START DATE 1956	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION c1960 WASC 900/94 ; H67 c1963 WASC 900/97 ; H67 1972 WASC 900/102 ; H67 1972 WASC 900/104 ; H67 1976 WASC 900/113 ; H67		DOCUMENTARY REFERENCES Plans; H67 B01 - B58 ; Plans and Elevations 1955 to 1968 1972 ERDE List ; Mechanical Testing Areas (a,b,c) 1992 RARDE List ; Mechanical Testing Areas (a,b,c)	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME 1) 206/H/14 02 Feb 1993 Labs from South East 206/H/15 02 Feb 1993 West end blast wall 206/Q/30 16 Mar 1993 Front Elevation from South 206/Q/37 16 Mar 1993 2) BB92/26054 H67 Mechanical Testing Ballistics Lab from North West BB92/26055 H67 Mechanical Testing Interior West chamber from North East BB92/26056 H67 Mechanical Testing Test Bed from North East	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: H68, H69, H70, H72			
CONDITION FAIR			
DESCRIPTION 1) CONSTRUCTIONAL MATERIAL Brick 2) ROOF MATERIALS AND STRUCTURE Flat concrete slab covered by roofing felt 3) POWER SOURCE Electricity and steam heat 4) DIMENSIONS i) L 58.4m ii) W 12.8m iii) HT 3.8m 5) H67 is a single storey laboratory with a central corridor giving access to rooms on either side. At the western end of the building is a firing bay formerly closed by double metal doors protected by a breeze block blast wall.			

Demolished July 1993

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H68	OLD SERIES	RCHME NUMBER	N.G.R. TL 37554 01192
NAME/FUNCTION Test bed		START DATE 1956	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION c1960 WASC 900/94 ; H68 c1963 WASC 900/97 ; H68 1972 WASC 900/102 ; H68 1972 WASC 900/104 ; H68 1976 WASC 900/113 ; H68		DOCUMENTARY REFERENCES Plans; H68 B01 - B06 ; Plans and Elevations 1955 to 1975 1972 ERDE List ; Test Bed 1992 RARDE List ; Test Bed	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME 1) 206/H/16 02 Feb 1993 From South East 206/H/17 02 Feb 1993 From East 206/Q/34 16 Mar 1993 From East 206/Q/35 16 Mar 1993 From South East 206/Q/36 16 Mar 1993 From South West 2) BB92/26057 H68 Firing Point from South West BB92/26058 H68 Firing Point from North East BB92/26059 H68 Interior of Firing Point South West chamber from South West BB92/26060 H68 Interior of Firing Point South West chamber detail North wall & floor	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: H67, H69, H70, H72			
CONDITION Good			
DESCRIPTION 1) CONSTRUCTIONAL MATERIAL Reinforced Concrete 2) ROOF MATERIALS AND STRUCTURE Concrete slab 3) POWER SOURCE Electricity 4) DIMENSIONS i) L 11.45m ii) W 8.35m iii) HT 2.9m 5) The Test Bed has a central control room with two firing bays to the west and a single bay to the east. Small apertures in the northern wall of the building are protected by baffle walls constructed from railway sleepers and breeze block.			

Dated July 1993

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
NUMBER H68a	OLD SERIES	RCHME NUMBER	N.G.R. TL 37544 01212
NAME/FUNCTION Firing Tunnel		START DATE 1958?	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
		1972 ERDE List ; Firing Tunnel/PCC Pipe 1992 RARDE List ; Firing Tunnel/PCC Pipe	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME 1) 206/H/18 02 Feb 1993 From 206/Q/33 16 Mar 1993 Firing tube from East	
RELATIONSHIPS WITH OTHER MONUMENTS			
ASSOCIATED WITH: H67, H68, H69, H70, H72			
CONDITION FAIR			
DESCRIPTION			
1) CONSTRUCTIONAL MATERIAL Pre-cast concrete			
3) POWER SOURCE None			
4) DIMENSIONS i) L 14.86m ii) W - iii) HT - iv)DIA 0.93m			
5) The firing tunnel is constructed from twelve segments of pre-cast concrete pipe set on breeze block and timber supports. Fragments of breeze block base indicate that it once extended further westwards.			

Demolished July 1993

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H69	OLD SERIES	RCHME NUMBER	N.G.R. TL 37576 01189
NAME/FUNCTION Magazine (Cordite Store)		START DATE 1958	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION c1960 WASC 900/94 ; H69 c1963 WASC 900/97 ; H69 1972 WASC 900/102 ; H69 1972 WASC 900/104 ; H69 1976 WASC 900/113 ; H69		DOCUMENTARY REFERENCES 1972 ERDE List ; Magazine 1992 RARDE List ; Magazine	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME 1) 206/H/20 02 Feb 1993 From West 206/Q/31 16 Mar 1993 From South West	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: H67, H68,H70, H72			
CONDITION Poor			
DESCRIPTION 1) CONSTRUCTIONAL MATERIAL Brick 2) ROOF MATERIALS AND STRUCTURE Corrugated abestos 3) POWER SOURCE Electricity 4) DIMENSIONS i) L 5.25m ii) W 3.25m iii) HT 2.8m 5) The magazine was fired in 1992. The magazine was entered through a single red steel door on the west side.			

Demolished July 1993

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H70	OLD SERIES	RCHME NUMBER	N.G.R. TL 37573 01200
NAME/FUNCTION Solvent store		START DATE 1958	END DATE 1992
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION c1960 WASC 900/94 ; H70 c1963 WASC 900/97 ; H70 1972 WASC 900/102 ; H70 1972 WASC 900/104 ; H70 1976 WASC 900/113 ; H70		DOCUMENTARY REFERENCES 1972 ERDE List ; Solvent Store 1992 RARDE List ; Solvent Store	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME 1) 206/H/19 02 Feb 1993 From West 206/Q/32 16 Mar 1993 From South West	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: H67, H68, H68a, H69, H72			
CONDITION Good			
DESCRIPTION 1) CONSTRUCTIONAL MATERIAL Brick 2) ROOF MATERIALS AND STRUCTURE Flat concrete slab 3) POWER SOURCE Electricity 4) DIMENSIONS i) L 2.6m ii) W 2m iii) HT 2.78m 5) The store is a single storey brick building with a flat concrete roof. It is entered by a single yellow door on the west side with brass furniture. The interior is shelved and lit by electric lights.			

Demolished July 1993

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H71	OLD SERIES	RCHME NUMBER	N.G.R. TL 37610 00943
NAME/FUNCTION Offices for propellant section		START DATE 1956	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION c1960 WASC 900/94 ; H71 c1963 WASC 900/97 ; H71 1972 WASC 900/102 ; H71 1972 WASC 900/104 ; H71 1976 WASC 900/113 ; H71		DOCUMENTARY REFERENCES Plans; H71 B01 - B10 ; Plans and Elevations 1956 to 1970 1972 ERDE List ; Offices Adjoining H10 1992 RARDE List ; Offices Adjoining H10	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME 1) 206/H/8 02 Feb 1993 From South West 206/T/1 17 Mar 1993 From South West	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: H10			
CONDITION Good			
DESCRIPTION 1) CONSTRUCTIONAL MATERIAL Brick 2) ROOF MATERIALS AND STRUCTURE Roofing felt over flat roof 3) POWER SOURCE Electricity and steam heat 4) DIMENSIONS i) L 14.5m ii) W 9.3m iii) HT 3.1m 5) The offices are joined to H10 by a short corridor. Entry to the offices was also gained through double doors on the north and south sides. The full length of the western side of the building is glazed while the eastern side is lit by smaller windows.			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER H72	OLD SERIES	RCHME NUMBER	N.G.R. TL 37590 01166
NAME/FUNCTION Compressor house for H67		START DATE 1960	END DATE 1992
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
c1960	WASC 900/94 ; H72	Plan;	
c1963	WASC 900/97 ; H72	H72	B01 - 13/11/1959 ; Proposed Building for Nitrogen Compressor
1972	WASC 900/102 ; H72		
1972	WASC 900/104 ; H72		
1976	WASC 900/113 ; H72	1972	ERDE List ; Compressor House for H67
		1992	RARDE List ; Compressor House for H67
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME 1) 206/H/13 02 Feb 1993 From South East 206/L/3 09 Mar 1993 From South East	
RELATIONSHIPS WITH OTHER MONUMENTS			
ASSOCIATED WITH: H67			
CONDITION Good			
DESCRIPTION			
1)	CONSTRUCTIONAL MATERIAL Brick		
2)	ROOF MATERIALS AND STRUCTURE Flat timber boards covered by roofing felt.		
3)	POWER SOURCE Electricity		
4)	DIMENSIONS i) L 3.8m ii) W 3.15m iii) HT 2.75m		
5)	A small brick building entered from the north side through double yellow painted doors. Externally on the south wall are two pressure guages by Budenburg Broadheath Manchester housed in a protective casing.		

Demolished July 1993

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER	OLD SERIES 288	RCHME NUMBER	N.G.R. TL 37661 00592
NAME/FUNCTION Gun Cutton Refining House Acetone Factory, Clean Machinery Store, Acetate of Lime General Store	START DATE 1865? 1898? 1923?	END DATE 1890? 1923? 1958?	
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION 1865 WASC 900/38 + SUPP5 975 ; Store 1900 WASC 900/79 ; Acetone Factory 1923 WASC 900/84 ; 288 1932 WASC 900/87 ; 288 > 1940 WASC 900/91A 1954 A - B.34 ; HS 30 c1960 WASC 900/94 ; H30	DOCUMENTARY REFERENCES 1908 RGPF Ledger WASC 1509 + WASC 1764 ; Acetone Refinery built pre 1872 p32 c1925 RGPF Ledger WASC 1680 ; Acetone Refinery c1945 RGPF Ledger WASC 1508 ; Acetone Refinery		
PHOTOGRAPHY HISTORIC	PHOTOGRAPHY RCHME 2)BB92/26036 From North East		
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH:			
CONDITION Demolished			
DESCRIPTION 5) No surface remains			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER	OLD SERIES 291	RCHME NUMBER	N.G.R. TL/37665 00582
NAME/FUNCTION Acetate of Lime & Drum Store Clean Store		START DATE pre 1872 1900?	END DATE 1900? 1958?
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
1865 WASC 900/38 + SUPP5 975 ; illegible 1923 WASC 900/84 ; 291 1932 WASC 900/87 ; 291 > 1940 WASC 900/91A 1954 A - B.34 ; HS 31 c1960 WASC 900/94 ; HS31		1908 RGPF Ledger WASC 1509 + WASC 1764 ; Acetate of Lime & Drum Store built pre 1872 p33 c1925 RGPF Ledger WASC 1680 ; Acetate of Lime & Drum Store c1945 RGPF Ledger WASC 1508 ; Acetate of Lime & Drum Store	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS			
ASSOCIATED WITH:			
CONDITION Demolished			
DESCRIPTION			
5) No surface remains.			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER	OLD SERIES	RCHME NUMBER 100	N.G.R. TL 37704 00680
NAME/FUNCTION Narrow gauge railway swing bridge	START DATE 1916	END DATE	
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION	DOCUMENTARY REFERENCES 1916 WASC 901/265 22 Mar 1916 Details of Swing Bridge near Saltpetre Refinery 1916 WASC 901/266 7 June 1916 Swing Bridge Great Hoppit Details of opening gear WASC 901/269 Not Dated Swing Bridge Great Hoppit revised details of central pier 1917 WASC 901/282 7-Feb-1917 Swing Bridge Great Hoppit details of locking gear		
PHOTOGRAPHY HISTORIC 1) Jenkins J M 1989 p394 2) PRO Supply 5/861 327 (no date)	PHOTOGRAPHY RCHME 2)BB92/26462 Detail Swing Bridges Great Hoppit		
RELATIONSHIPS WITH OTHER MONUMENTS			
ASSOCIATED WITH:			
CONDITION Poor			
DESCRIPTION The remains of the swing bridge comprise the central concrete pier in the middle of the canal and a concrete abutment on the western bank. The line of the tramway may be followed westwards as an earthwork embankment for 15m with a width of 3.9m. The bridge formerly comprised a fixed eastern section and a section on the western side that swung on a turntable fixed to the west bank (Jenkins 1989, 394). The fixed eastern portion and the controlling signal was demolished in 1987 (Jenkins 1989, 413).			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER	OLD SERIES	RCHME NUMBER 262	N.G.R.
NAME/FUNCTION Edge runner Capstan base		START DATE	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH:			
CONDITION Fair			
<p>DESCRIPTION</p> <p>1) CONSTRUCTIONAL MATERIAL Limestone</p> <p>4) DIMENSIONS iii)w 0.46m iv)DIA 1.84m</p> <p>5) The gunpowder mill edge runner is set horizontally, the cracked stone has been strengthened by the addition of iron bars bolted and set in lead.</p> <p> The edge runner appears to have been reused as a base for a capstan probably to aid the passage of barges through the former canal to the south.</p>			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
NUMBER	OLD SERIES	RCHME NUMBER 311	N.G.R. TL 37694 00596
NAME/FUNCTION Saltpetre Refinery		START DATE pre 1783	END DATE 1806
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION 1783 WASC 900/01 + MR 593 1783 WASC 900/01A 1801 WASC 900/58 + MR 580		DOCUMENTARY REFERENCES	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS Unknown			
CONDITION Demolished			
DESCRIPTION No Surface Remains			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER	OLD SERIES 291a	RCHME NUMBER	N.G.R. TL 37680 00577
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NAME/FUNCTION	START DATE	END DATE
Building	pre 1783	1827
Crystalizing House	1827	1865
Gun Cotton Process Building	1865	1923?
Timber Store	1923?	196?-7?

NO PHOTOGRAPHY
AVAILABLE

CARTOGRAPHIC DEPICTION

1783 WASC 900/01 + MR 593
 1783 WASC 900/01A
 1801 WASC 900/58 + MR 580
 1806? WO 78/1352 + MR 580
 1827 WASC 900/04 + MPH 271 ; Crystalizing House
 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 ; Gun Cotton
 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 ; Timber Store
 > 1940 WASC 900/91A
 1954 A - B.34

DOCUMENTARY REFERENCES

1807 Statement of Property WO55 2694
 1830 Statement of Property WO55 2351
 1841 Statement of Property WO55 2856
 1851 Statement of Property WO55 3027

PHOTOGRAPHY
HISTORIC

PHOTOGRAPHY
RCHME

RELATIONSHIPS WITH OTHER MONUMENTS Unknown

CONDITION Demolished

DESCRIPTION

No Surface Remains
 Probable that 291a represents a later 20th Century building with with earlier underlying structures

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
NUMBER	OLD SERIES	RCHME NUMBER 312	N.G.R. TL 37690 00594
NAME/FUNCTION Saltpetre Refinery Building		START DATE 1801-06	END DATE pre 1827
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION 1806? WO 78/1352 + MR 580 ; illegible		DOCUMENTARY REFERENCES	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS Unknown			
CONDITION Demolished			
DESCRIPTION No Surface Remains			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER	OLD SERIES 291	RCHME NUMBER 291	N.G.R. TL 37661 00586
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NAME/FUNCTION Saltpetre Refinery Building Gun Cotton Building (part of) Clean Store	START DATE 1801-06 1865? 1923	END DATE 1865? 1923
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NO PHOTOGRAPHY
AVAILABLE

<p>CARTOGRAPHIC DEPICTION</p> <p>1806? WO 78/1352 + MR 580 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 ; Gun Cotton 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 ; Clean Store</p>	<p>DOCUMENTARY REFERENCES</p> <p>1807 Statement of Property WO55 2694 1830 Statement of Property WO55 2351 1841 Statement of Property WO55 2856 1851 Statement of Property WO55 3027 1908 RGPF Ledger WASC 1509 + WASC 1764 ; Acetate of Lime and Drum Store c1925 RGPF Ledger WASC 1680 ; Acetate of Lime and Drum Store c1945 RGPF Ledger WASC 1508 ; Acetate of Lime and Drum Store</p>
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PHOTOGRAPHY HISTORIC	PHOTOGRAPHY RCHME
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RELATIONSHIPS WITH OTHER MONUMENTS Unknown

CONDITION Demolished

DESCRIPTION

No Surface Remains
 291 probably represents the original structure after various alterations

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER	OLD SERIES 288	RCHME NUMBER 288	N.G.R. TL 37660 00600
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NAME/FUNCTION Saltpetre Refinery Building Store House General Store Acetone Factory (part of)	START DATE 1801-06 1827 1865? 1900?	END DATE 1827 1865? 1900? 196?-7?
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NO PHOTOGRAPHY
AVAILABLE

<p>CARTOGRAPHIC DEPICTION</p> <p>1806? WO 78/1352 + MR 580 1827 WASC 900/04 + MPH 271 ; Store House 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 ; General Store 1865 WASC 900/41A 1865 WASC 900/42 1897 WASC 900/53C c1900 WASC 900/79 ; Acetone Factory 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 ; General Store</p>	<p>DOCUMENTARY REFERENCES</p> <p>1807 Statement of Property WO55 2694 1830 Statement of Property WO55 2351 1841 Statement of Property WO55 2856 1851 Statement of Property WO55 3027 1908 RGPF Ledger WASC 1509 + WASC 1764 ; Acetone Factory c1925 RGPF Ledger WASC 1680 ; Acetone Factory c1945 RGPF Ledger WASC 1508 ; Acetone Factory</p>
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PHOTOGRAPHY HISTORIC	PHOTOGRAPHY RCHME
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RELATIONSHIPS WITH OTHER MONUMENTS Unknown

CONDITION Demolished

DESCRIPTION

No Surface Remains
 288 probably represents the original structure

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER	OLD SERIES	RCHME NUMBER 313	N.G.R. TL 37672 00608
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NAME/FUNCTION Saltpetre Refinery Building Sulphur Refining House Gun Cotton Building	START DATE 1801-06 1827 1865?	END DATE 1827 1865? 189?-1900?
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NO PHOTOGRAPHY
AVAILABLE

<p>CARTOGRAPHIC DEPICTION</p> <p>1806? WO 78/1352 + MR 580 1827 WASC 900/04 + MPH 271 ; Sulphur Refining House 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 ; Gun Cotton</p>	<p>DOCUMENTARY REFERENCES</p> <p>1807 Statement of Property WO55 2694 1830 Statement of Property WO55 2351 1841 Statement of Property WO55 2856 1851 Statement of Property WO55 3027</p>
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PHOTOGRAPHY HISTORIC	PHOTOGRAPHY RCHME
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RELATIONSHIPS WITH OTHER MONUMENTS Unknown

CONDITION Demolished

DESCRIPTION

No Surface Remains

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
NUMBER	OLD SERIES	RCHME NUMBER 314	N.G.R. TL 37687 00589
NAME/FUNCTION Building		START DATE 1827-65	END DATE 1890?
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION 1865 WASC 900/38 + SUPP5 975		DOCUMENTARY REFERENCES	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS Unknown			
CONDITION Demolished			
DESCRIPTION No Surface Remains			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER	OLD SERIES	RCHME NUMBER 315	N.G.R. TL 37658 00606
NAME/FUNCTION Copper Smiths Forge		START DATE 1806-27	END DATE 1890?-1900?

NO PHOTOGRAPHY
AVAILABLE

CARTOGRAPHIC DEPICTION	DOCUMENTARY REFERENCES
<p>1827 WASC 900/04 + MPH 271 ; Copper Smiths Forge</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>1871 SUPP5 682</p> <p>1865 WASC 900/38 + SUPP5 975</p>	

PHOTOGRAPHY HISTORIC	PHOTOGRAPHY RCHME
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RELATIONSHIPS WITH OTHER MONUMENTS Unknown

CONDITION Demolished

DESCRIPTION

No Surface Remains

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER	OLD SERIES 278,279,280,281,282	RCHME NUMBER	N.G.R. TL 37719 00665
NAME/FUNCTION New Saltpetre Refinery		START DATE 1816	END DATE 195?
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION 1827 WASC 900/04 + MPH 271 ; New Refinery 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		DOCUMENTARY REFERENCES 1908 RGPF Ledger WASC 1509 + WASC 1764 ; Saltpetre Store/Melting House, Crystalizing House, Grough Store, Refining House built 1816 p31-2 c1925 RGPF Ledger WASC 1680 ; Saltpetre Store/Melting House, Crystalizing House, Grough Store, Refining House c1945 RGPF Ledger WASC 1508 ; Saltpetre Store/Melting House, Crystalizing House, Grough Store, Refining House	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS Unknown			
CONDITION Demolished			
DESCRIPTION No Surface Remains			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER	OLD SERIES	RCHME NUMBER 316	N.G.R. TL 37723 00610
NAME/FUNCTION New Refinery (part of) Gun Cotton Works		START DATE 1816?	END DATE 1900
NO PHOTOGRAPHY AVAILABLE			
<p>CARTOGRAPHIC DEPICTION</p> <p>1827 WASC 900/04 + MPH 271 ; New Refinery 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 ; Gun Cotton and Boiler House 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 ; Boiler House</p>		<p>DOCUMENTARY REFERENCES</p> <p>1908 RGPF Ledger WASC 1509 + WASC 1764 ; Boiler House c1925 RGPF Ledger WASC 1680 ; Boiler House c1945 RGPF Ledger WASC 1508 ; Boiler House</p>	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS Unknown			
CONDITION Demolished			
<p>DESCRIPTION</p> <p>No Surface Remains</p>			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
NUMBER	OLD SERIES	RCHME NUMBER 317	N.G.R. TL 37592 00830
NAME/FUNCTION Sulphur Storehouse,late Stable for Contact Horses		START DATE 1801-06	END DATE 1900?
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
1806? WO 78/1352 + MR 580 1827 WASC 900/04 + MPH 271 ; Sulphur Storehouse,late Stable for Contact Horses 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 ; Store House 1865 WASC 900/41A 1865 WASC 900/42 1897 WASC 900/53C			
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS Unknown			
CONDITION Demolished			
DESCRIPTION No Surface Remains			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER	OLD SERIES	RCHME NUMBER 318	N.G.R. TL 37578 00870
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NAME/FUNCTION Late Master Workers Dwelling Clerks Quarters	START DATE 1806-27 1865?	END DATE 1865? 1900?
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NO PHOTOGRAPHY
AVAILABLE

CARTOGRAPHIC DEPICTION	DOCUMENTARY REFERENCES
<p>1827 WASC 900/04 + MPH 271 ; Late Master Workers Dwelling</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>1871 SUPP5 682</p> <p>1865 WASC 900/38 + SUPP5 975 ; Clerks Qtrs</p> <p>1865 WASC 900/41A</p> <p>1865 WASC 900/42</p> <p>1897 WASC 900/53C</p>	

PHOTOGRAPHY HISTORIC	PHOTOGRAPHY RCHME
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RELATIONSHIPS WITH OTHER MONUMENTS Unknown

CONDITION Demolished

DESCRIPTION

No Surface Remains

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER	OLD SERIES	RCHME NUMBER 319	N.G.R. TL 37562 00904
NAME/FUNCTION Dwelling of the 2nd Clerk,Storekeepers Dept	START DATE 1806-27	END DATE pre1865	
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION 1827 WASC 900/04 + MPH 271 ; Dwelling of the 2nd Clerk,Storekeepers Dept	DOCUMENTARY REFERENCES		
PHOTOGRAPHY HISTORIC	PHOTOGRAPHY RCHME		
RELATIONSHIPS WITH OTHER MONUMENTS Unknown			
CONDITION Destroyed			
DESCRIPTION Destroyed By Horsemill Stream Widening			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER	OLD SERIES	RCHME NUMBER 320	N.G.R. TL 37560 00950
NAME/FUNCTION Watch House		START DATE 1806-27	END DATE 1900?
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
1827 WASC 900/04 + MPH 271 ; Watch House 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			
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS Unknown			
CONDITION Demolished			
DESCRIPTION No Surface Remains			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
NUMBER	OLD SERIES	RCHME NUMBER 340	N.G.R. TL 37600 00825
NAME/FUNCTION Building		START DATE post 1945	END DATE by 1972
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION 1967 O.S. TL 3700 NE 1:250		DOCUMENTARY REFERENCES	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: H16			
CONDITION Demolished			
DESCRIPTION 1) CONSTRUCTIONAL MATERIAL 2) ROOF MATERIALS AND STRUCTURE 3) POWER SOURCE 4) DIMENSIONS i) L ii) W iii) HT 5) The building is depicted by the O.S. as having an earthwork traverse against its North and South walls.			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
NUMBER	OLD SERIES	RCHME NUMBER 341	N.G.R. TL 37607 00811
NAME/FUNCTION Building		START DATE post 1945	END DATE by 1972
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION 1967 O.S. TL 3700 NE		DOCUMENTARY REFERENCES	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: H16			
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	RCHME NUMBER 342	N.G.R. TL 37608 00806
NAME/FUNCTION Building	START DATE post 1945		END DATE by 1972
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION 1967 O.S. TL 37 00 NE		DOCUMENTARY REFERENCES	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: H16			
CONDITION Demolished			
DESCRIPTION 1) CONSTRUCTIONAL MATERIAL 2) ROOF MATERIALS AND STRUCTURE 3) POWER SOURCE 4) DIMENSIONS i) L ii) W iii) HT 5)			

