

**THE ROYAL GUNPOWDER FACTORY**

**WALTHAM ABBEY**

**New Hill Nitroglycerine Factory**



Calc 8-07  
20-1-97

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
NUMBER S1	OLD SERIES	RCHME NUMBER	N.G.R. TL 37742 02014
NAME/FUNCTION Pump House		START DATE 1941	END DATE
NO PHOTOGRAPHY AVAILABLE			
<b>CARTOGRAPHIC DEPICTION</b>  > 1940    WASC 900/91A 1954    A - B.34 c1960    WASC 900/94 ; S1 c1963    WASC 900/97 ; S1 1972    WASC 900/102 ; S1 1972    WASC 900/104 ; S1 1976    WASC 900/113 ; S1		<b>DOCUMENTARY REFERENCES</b>  Plans; S1    B02,B03 ; Plans and Elevations 1941  1972    ERDE List ; Pump House 1991    Mott McDonald survey ; Pump House 1992    RARDE List ; Pump House	
<b>PHOTOGRAPHY HISTORIC</b>		<b>PHOTOGRAPHY RCHME</b> 1) 206/N/5 From North East 206/N/6 Detail of pipes West of S1 from North	
<b>RELATIONSHIPS WITH OTHER MONUMENTS</b>  ASSOCIATED WITH: New Hill Nitroglycerine factory			
<b>CONDITION</b> Fair			
<b>DESCRIPTION</b> 1) <b>CONSTRUCTIONAL MATERIAL</b> Brick in English bond  2) <b>ROOF MATERIALS AND STRUCTURE</b> Flat concrete slab with felt covering  3) <b>POWER SOURCE</b> Steam and Electricity  4) <b>DIMENSIONS</b> i) L 4.64 ii) W 4.07 iii) HT 3.25  5)    The building has a single door on the eastern wall. About 5m to the west of the building five pipes diameter 64mm dip into the Cornmill Stream. The pipes have flanged heads and formerly connected to a machine set on a concrete base within the pump house, the mounting bolts from which remain. To the East is a small concrete pit with pipe work.			

## THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER S2	OLD SERIES 24/145	RCHME NUMBER	N.G.R. TL 37780 02044
NAME/FUNCTION Electrical Sub Station		START DATE 1941	END DATE 198?
NO PHOTOGRAPHY AVAILABLE			
<p>CARTOGRAPHIC DEPICTION</p> <p>&gt; 1940 WASC 900/91A 1954 A - B.34 c1960 WASC 900/94 ; S2 c1963 WASC 900/97 ; S2 1972 WASC 900/102 ; S2 1972 WASC 900/104 ; S2 1976 WASC 900/113 ; S2</p>		<p>DOCUMENTARY REFERENCES</p> <p>Plans; S2 B01,B02 ; General Plans 1941</p> <p>1972 ERDE List ; Electrical Sub Station 1991 Mott McDonald survey ; Electrical Sub Station 1992 RARDE List ; Electrical Sub Station 1992 FBRC Transformer House</p>	
<p>PHOTOGRAPHY HISTORIC</p>		<p>PHOTOGRAPHY RCHME</p> <p>1) 206/D/1 From North West 206/D/12 Interior Control room 206/D/13 Interior Control room</p> <p>2) BB92/26152 Interior of West room from South West BB92/26153 Interior of East room from South East BB92/26154 North East room from North West</p>	
<p>RELATIONSHIPS WITH OTHER MONUMENTS</p> <p>ASSOCIATED WITH: New Hill Nitroglycerine Factory</p>			
<p>CONDITION Fair</p>			
<p>DESCRIPTION</p> <p>1) CONSTRUCTIONAL MATERIAL Brick</p> <p>ROOF MATERIALS AND STRUCTURE Concrete</p> <p>3) POWER SOURCE Electricity</p> <p>4) DIMENSIONS i) L 11.85 ii) W 8.01 iii) HT 3.48</p> <p>5) The building is a single storey structure. To the north are two open bays screened by a brick wall within, each of these bays is a transformer. Each transformer has a makers plate that reads "The British Thomso-Houston Co Ltd Rugby Manu 1941 250 KV". The building was entered through two single doors on the west wall that gave access into two switch rooms. Both the switch rooms retain all their original equipment.</p> <p>Historic artefacts - switch rooms and transformers, salvage some/all the equipment, makers plates. Seal and mothball?</p>			

## THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER S3	OLD SERIES 24/103	RCHME NUMBER	N.G.R. TL 37830 02050
NAME/FUNCTION Store/Small Scale Trial House		START DATE 1941	END DATE 197? (demolished)
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION  > 1940    WASC 900/91A 1954      A - B.34 c1960    WASC 900/94 ; 24/103 c1963    WASC 900/97 ; S3 1972    WASC 900/102 ; S3 1972    WASC 900/104 ; S3 1976    WASC 900/113 ; S3		DOCUMENTARY REFERENCES  Plans S3      B01 - B07 ; Plan and Elevations 1941 to 1957  1972    ERDE List ; Demolished Store 1991    Mott McDonald survey ; Small Scale Trials House 1992    RARDE List ; Demolished Store	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME 1) 206/D/2 From North West	
RELATIONSHIPS WITH OTHER MONUMENTS  ASSOCIATED WITH:			
CONDITION      Demolished			
DESCRIPTION 1)      CONSTRUCTIONAL MATERIAL Brick  3)      POWER SOURCE Electricity  4)      DIMENSIONS i) L 14.6 ii) W 9.2  5)      The building has been demolished a concrete slab remains, a former porch may be discerned on the north side.			

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER S5	OLD SERIES 24/129	RCHME NUMBER	N.G.R. TL 37880 02064
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NAME/FUNCTION Charge Machinery Block Process Building	START DATE 1941 1958?	END DATE 1958? 198?
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NO PHOTOGRAPHY  
AVAILABLE

CARTOGRAPHIC DEPICTION

> 1940 WASC 900/91A  
1954 A - B.34  
c1960 WASC 900/94 ; 24/129  
c1963 WASC 900/97 ; S5  
1972 WASC 900/102 ; S5  
1972 WASC 900/104 ; S5  
1976 WASC 900/113 ; S5

DOCUMENTARY REFERENCES

Plans;  
S5 B01 -B15 ; Plans and Elevations 1940 to 1959  
  
1972 ERDE List ; Charge Macinery Block  
1991 Mott McDonald survey ; Charge Machining Block  
1992 RARDE List ; Charge Machinery Block  
  
1992 FBRC ; Metal Store

PHOTOGRAPHY  
HISTORIC

PHOTOGRAPHY  
RCHME  
1) 206/D/4 From North West

RELATIONSHIPS WITH OTHER MONUMENTS

ASSOCIATED WITH: S6

CONDITION Poor

DESCRIPTION

- 1) CONSTRUCTIONAL MATERIAL  
Brick
- 2) ROOF MATERIALS AND STRUCTURE  
Concrete slab covered in felt
- 3) POWER SOURCE  
Steam, Electricity
- 4) DIMENSIONS i) L 23.88 ii) W 9.81 iii) HT 3.4
- 5) The building is a single storey structure. Two principal building phases were recognised. On the western and eastern elevations is a single door and a window. Along the northern wall a timber framed corridor covered by asbestos has been added. The single and double doors on this wall are protected by toe boards to delineate dirty and clean areas. the interior of the building appears most recently to have been used as workshops and laboratories. Uses include a Casting room, Pressing bay, Incorporator, 1+2 Ball and Casting room and Drill room and associated switch rooms.

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER S6	OLD SERIES 24/137	RCHME NUMBER	N.G.R. TL 37872 02051
NAME/FUNCTION Lavatories Magazine		START DATE 1941 195?	END DATE  198?
NO PHOTOGRAPHY AVAILABLE			
<p>CARTOGRAPHIC DEPICTION</p> <p>&gt; 1940    WASC 900/91A 1954    A - B.34 c1960    WASC 900/94 ; 24/137 c1963    WASC 900/97 ; S6 1972    WASC 900/102 ; S6 1972    WASC 900/104 ; S6 1976    WASC 900/113 ; S6</p>		<p>DOCUMENTARY REFERENCES</p> <p>Plans; S6        B01 - 29/1/41 ; Architectural Details of Units</p> <p>1972    ERDE List ; Magazine 1991    Mott McDonald survey ; Magazine 1992    RARDE List ; Magazine</p>	
<p>PHOTOGRAPHY HISTORIC</p>		<p>PHOTOGRAPHY RCHME 1) 206/D/3 From North West</p>	
<p>RELATIONSHIPS WITH OTHER MONUMENTS</p> <p>ASSOCIATED WITH: S5</p>			
<p>CONDITION        Fair</p>			
<p>DESCRIPTION</p> <p>1)        CONSTRUCTIONAL MATERIAL           Brick in English Bond</p> <p>2)        ROOF MATERIALS AND STRUCTURE           Concrete slab at two heights</p> <p>3)        POWER SOURCE           Steam and Electricity</p> <p>4)        DIMENSIONS    i) L 5.1    ii) W 6.37    iii) HT 3.0</p> <p>5)        To the North a door in an outshot gives access into the magazine the dirty and clean areas delimited by a toaboard at the threshold. Inside are four open fronted lockers. The South elevation is blank and on the West are two doors. To the East are another two doors one of which is blocked. The building was formerly protected by a screen wall.</p>			

## THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER S7	OLD SERIES 24/101	RCHME NUMBER	N.G.R. TL 37960 02093
NAME/FUNCTION Store ( Nitromethane Store)		START DATE 1941	END DATE
NO PHOTOGRAPHY AVAILABLE			
<p>CARTOGRAPHIC DEPICTION</p> <p>&gt; 1940 WASC 900/91A 1954 A - B.34 c1960 WASC 900/94 ; 24/101 c1963 WASC 900/97 ; S7 1972 WASC 900/102 ; S7 1972 WASC 900/104 ; S7 1976 WASC 900/113 ; S7</p>		<p>DOCUMENTARY REFERENCES</p> <p>Plans; S7 B01 - B05 ; Plans and Elevations 1940 to 1941</p> <p>1972 ERDE List ; Demolished Store only Base Remains 1991 Mott McDonald survey ; Nitromethane Store 1992 RARDE List ; Demolished Store</p>	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME  1) 206/D/9 From North East	
RELATIONSHIPS WITH OTHER MONUMENTS			
ASSOCIATED WITH:			
CONDITION		Demolished	
<p>DESCRIPTION</p> <p>1) CONSTRUCTIONAL MATERIAL Concrete</p> <p>4) DIMENSIONS i) L 21.3 ii) W 11.3</p> <p>5) The building has been demolished a concrete slab remains</p>			

## THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER S9	OLD SERIES	RCHME NUMBER	N.G.R. TL 38096 02145
NAME/FUNCTION Police Gate House		START DATE 1941	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION  > 1940    WASC 900/91A 1954      A - B.34 c1960     WASC 900/94 c1963     WASC 900/97 ; S9 1972      WASC 900/102 ; S9 1972      WASC 900/104 ; S9 1976      WASC 900/113 ; S9		DOCUMENTARY REFERENCES  Plan; S9        B01 ; 16/8/1941 ; Temporary Police Hut  1972      ERDE List ; Police Gate House 1991      Mott McDonald survey ; New Hill Gate 1992      RARDE List ; Police Gate House	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME 1) 206/D/10 From North West	
RELATIONSHIPS WITH OTHER MONUMENTS  ASSOCIATED WITH: S42, S43			
CONDITION      Fair			
DESCRIPTION 1)        CONSTRUCTIONAL MATERIAL Asbestos sheet over wooden frame  2)        ROOF MATERIALS AND STRUCTURE Wood with Felt covering  3)        POWER SOURCE Electricity  4)        DIMENSIONS i) L 3.9 ii) W 2.0  5)        The North East and North West elevations have windows in the angles. To the West is a door and porch and to the South another window. The interior consists of two rooms.			



## THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER S10	OLD SERIES 24/128	RCHME NUMBER	N.G.R. TL 37920 02064
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NAME/FUNCTION Dark Room & Office Block	START DATE 1941	END DATE 198?
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NO PHOTOGRAPHY  
AVAILABLE

### CARTOGRAPHIC DEPICTION

> 1940	WASC 900/91A
1954	A - B.34
c1960	WASC 900/94 ; 24/128
c1963	WASC 900/97 ; S10
1972	WASC 900/102 ; S10
1972	WASC 900/104 ; S10
1976	WASC 900/113 ; S10

### DOCUMENTARY REFERENCES

Plans;	
S10	B01 - B03 ; Plans and Elevations 1940 to 1965
1972	ERDE List ; Dark Room and Office Block
1991	Mott McDonald survey ; Dark Room and Office Block
1992	RARDE List ; Dark Room and Office Block
1992	FBRC Laboratory

### PHOTOGRAPHY HISTORIC

PHOTOGRAPHY  
RCHME  
1) 206/D/6 from North East

### RELATIONSHIPS WITH OTHER MONUMENTS

ASSOCIATED WITH:

CONDITION Fair

### DESCRIPTION

- 1) CONSTRUCTIONAL MATERIAL  
Brick
  
- 2) ROOF MATERIALS AND STRUCTURE  
Flat concrete slab with felt covering
  
- 3) POWER SOURCE  
Electricity
  
- 4) DIMENSIONS i) L 16.45 ii) W 5.29 iii) HT 2.88
  
- 5) The eastern elevation originally comprised a recessed central door flanked by two metal windows with tile sills. The northern elevation has a single window, the west side has two windows and an external toilet. A small extension has been added to the southern end of the building 3.93m in length. It is brick built in stretcher bond with a single door and window. Its most recent use has been as a locker and shower room. The recessed door on the eastern side gave access to a central lobby to the left was a laboratory area and to the right a darkroom. The room to the rear of the lobby was also a darkroom.

## THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER S11	OLD SERIES	RCHME NUMBER	N.G.R. 37916 02077
NAME/FUNCTION Small Shed		START DATE 1941	END DATE 198?
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION  > 1940    WASC 900/91A 1954      A - B.34 c1960     WASC 900/94 c1963     WASC 900/97 ; S11 1972      WASC 900/102 ; S11 1972      WASC 900/104 ; S11 1976      WASC 900/113 ; S11		DOCUMENTARY REFERENCES  Plan; S11      Bo1 - 14/5/1940 ; Structural Details  1972     ERDE List ; Small Shed 1991     Mott McDonald survey ; Transmitting Equipment 1992     RARDE List ; Small Shed	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME 1) 206/D/5 From North West	
RELATIONSHIPS WITH OTHER MONUMENTS  ASSOCIATED WITH:			
CONDITION      Poor			
DESCRIPTION 1)      CONSTRUCTIONAL MATERIAL Hardboard over Timber Frame  2)      ROOF MATERIALS AND STRUCTURE Flat Asbestos sheeting  3)      POWER SOURCE Electricity  4)      DIMENSIONS i) L 1.25 ii) W 1.18 iii) HT 2.15  5)      small shed with a single door on the northern side, inside the shed is Radio Telephone equipment  Historic artefacts - Radio equipment			

## THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER S12	OLD SERIES 24/135	RCHME NUMBER	N.G.R. TL 37928 02044
NAME/FUNCTION Chemical Store		START DATE 1941	END DATE 198?
NO PHOTOGRAPHY AVAILABLE			
<b>CARTOGRAPHIC DEPICTION</b>  > 1940    WASC 900/91A 1954    A - B.34 c1960    WASC 900/94 ; 24/135 c1963    WASC 900/97 ; S12 1972    WASC 900/102 ; S12 1972    WASC 900/104 ; S12 1976    WASC 900/113 ; S12		<b>DOCUMENTARY REFERENCES</b>  Plans; S12    B01,B02 ; Plan and Elevations 1941  1972    ERDE List ; Chemical Store 1991    Mott McDonald survey ; Lab,Hose and Reel House and Store 1992    RARDE List ; Chemical Store 1992    FBRC Laboratory	
<b>PHOTOGRAPHY HISTORIC</b>		<b>PHOTOGRAPHY RCHME</b> 1) 206/D/7 From North East	
<b>RELATIONSHIPS WITH OTHER MONUMENTS</b>  ASSOCIATED WITH: S13			
<b>CONDITION</b> Good			
<b>DESCRIPTION</b> 1)        CONSTRUCTIONAL MATERIAL Brick in English bond  2)        ROOF MATERIALS AND STRUCTURE Flat concrete slab with felt covering  3)        POWER SOURCE Steam and Electricity  4)        DIMENSIONS i) L 7.18 ii) W 5.9 iii) HT 3.12  5)        To the east two sets of double doors give access into two bays. To the north a single door gives access into a rear room.			

## THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER S13	OLD SERIES	RCHME NUMBER	N.G.R. TL 37947 02052
NAME/FUNCTION Store		START DATE 1940	END DATE 198?
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION  > 1940    WASC 900/91A 1954    A - B.34 c1960    WASC 900/94 c1963    WASC 900/97 ; S13 1972    WASC 900/102 ; S13 1972    WASC 900/104 ; S13 1976    WASC 900/113 ; S13		DOCUMENTARY REFERENCES  Plans; S13    B01,B02 ; Plans and Elevations 1941  1972    ERDE List ; Store 1991    Mott McDonald survey ; Detonation 1992    RARDE List ; Store	
PHOTOGRAPHY HISTORIC  PRO Supply 5/863 August 1940 342 As built		PHOTOGRAPHY RCHME 1) 206/D/8 From North west	
RELATIONSHIPS WITH OTHER MONUMENTS  ASSOCIATED WITH: S12			
CONDITION            Good			
DESCRIPTION 1)        CONSTRUCTIONAL MATERIAL Brick in English Bond  2)        ROOF MATERIALS AND STRUCTURE Flat concrete slabs over two RSJ's  3)        POWER SOURCE Electricity  4)        DIMENSIONS    i) L 8.33    ii) W 5.2  5)        The West elevation has a single door and a double roll door. The interior has a crane with RSJ runners above a Parquet floor.			

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER S14	OLD SERIES	RCHME NUMBER	N.G.R. TL 37969 01953
NAME/FUNCTION Solex Fuel Store		START DATE 1941	END DATE 198?
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION  1976      WASC 900/113 ; S14		DOCUMENTARY REFERENCES  Plan; S14      B01 - 8/9/75 ; Rehab of S14 Providing Day Expence Mag.  1991      Mott McDonald survey ; Solex Fuel Store 1992      RARDE List ; Solex Fuel Store	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME 1) 206/B/9 From South	
RELATIONSHIPS WITH OTHER MONUMENTS  ASSOCIATED WITH: S16?			
CONDITION      Fair			
DESCRIPTION 1)      CONSTRUCTIONAL MATERIAL Brick in English Bond  2)      ROOF MATERIALS AND STRUCTURE Flat concrete slab  4)      DIMENSIONS i) L 4.1 ii) W 2.31 iii) HT 2.2  5)      The entrance to the building is from the South. The interior has two cubicles to the East and a Urinal. One of the doors has a sign which reads 'corrosive Acids'.			

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER S15	OLD SERIES	RCHME NUMBER	N.G.R. TL 38002 01947
NAME/FUNCTION Plenum Heater House Control Room & Firing Point (S16)		START DATE 1941	END DATE 198?

NO PHOTOGRAPHY  
AVAILABLE

<p>CARTOGRAPHIC DEPICTION</p> <p>&gt; 1940 WASC 900/91A 1954 A - B.34 c1960 WASC 900/94 ; S15 c1963 WASC 900/97 ; S15 1972 WASC 900/102 ; S15 1972 WASC 900/104 ; S15 1976 WASC 900/113 ; S15</p>	<p>DOCUMENTARY REFERENCES</p> <p>Plans; S15 B01 - B03 ; Plans and Elevations 1940 to 1969</p> <p>1972 ERDE List ; Control Room and Firing Point S16 1991 Mott McDonald survey ; Control Room 1992 RARDE List ; Control Room and Firing Point S16 1992 FBRC Control room for S16</p>
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<p>PHOTOGRAPHY HISTORIC</p>	<p>PHOTOGRAPHY RCHME 1) 206/B/6 From North</p>
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RELATIONSHIPS WITH OTHER MONUMENTS

ASSOCIATED WITH: S16

CONDITION Fair

DESCRIPTION

- 1) CONSTRUCTIONAL MATERIAL  
Brick in English bond
- 2) ROOF MATERIALS AND STRUCTURE  
Concrete slab with felt covering
- 3) POWER SOURCE  
Electricity
- 4) DIMENSIONS i) L 5.37 ii) W 2.93 iii) HT 2.8
- 5) The building is single storied with a double door on the north wall. The internal switch gear has been removed.

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER S16	OLD SERIES 24/105	RCHME NUMBER	N.G.R. TL 38020 01934
NAME/FUNCTION Nitrating House Firing Point No 1		START DATE 1940 195?	END DATE 1945 198?
NO PHOTOGRAPHY AVAILABLE			
<p>CARTOGRAPHIC DEPICTION</p> <p>&gt; 1940 WASC 900/91A 1954 A - B.34 c1960 WASC 900/94 ; 24/105 c1963 WASC 900/97 ; S16 1972 WASC 900/102 ; S16 1972 WASC 900/104 ; S16 1976 WASC 900/113 ; S16</p>		<p>DOCUMENTARY REFERENCES</p> <p>Plans; S16 B01 - B24 ; Plans and Elevations 1940 to 1975</p> <p>1972 ERDE List ; Firing Point No.1 1991 Mott McDonald survey ; Firing Point No.1 1992 RARDE List ; Firing Point No.1 1992 FBRC Firing Chamber</p>	
<p>PHOTOGRAPHY HISTORIC</p> <p>PRO Supply 5/863 August 1940 331, 332, 33, 335, 336 Photographs of construction</p>		<p>PHOTOGRAPHY RCHME</p> <p>1) 206/B/7 Entrance from North 206/B/17 Process Earthenware 206/B/18 Tower on East side with Earthenware bases 206/B/19 Tower on East side with Earthenware bases 2) BB92/26135 Detail of Earthenware fragment BB92/26136 Nitrator view from East BB92/26148 Interior BB92/26351 S16 Drawing S.16.B.12 Details of Support to Fume pipe 4.Mar.1941 (MOD Chessington) BB92/26368 S16 Drawing S16.B.18 Pipework General Arrangement (MOD Chessington)</p>	
<p>RELATIONSHIPS WITH OTHER MONUMENTS</p> <p>ASSOCIATED WITH: S14?, S15, S19, S23 consists of: S18</p>			
CONDITION		Fair	

DESCRIPTION

- 1) CONSTRUCTIONAL MATERIAL  
Brick Earthwork
- 2) ROOF MATERIALS AND STRUCTURE  
Concrete formerly attached to bolts around the top
- 3) POWER SOURCE  
Electricity
- 4) DIMENSIONS i)INT L 10.0 ii)INT W 9.8
- 5) S16 was originally constructed as nitrating house during the second world war. It is however believed that it was never used for this purpose. The structure was subsequently converted to firing point.

The interior of the structure was protected by slightly battered concrete walls surrounded by an earthen traverse. It was entered from the north through a curving tunnel. To the south a straight exit tunnel formerly enclosed channels to S19 The Washing House, S23 the Wash Water Settling House and S25 The Flume House. On the southern side of the mound a raised concrete platform S18 formerly supported a timber framed building and tanks.

Subsequent to its conversion to a firing point a gantry 4.65m by 4.63m and 2.85m in height has been constructed. The straight tunnel to west has been partly blocked by breeze blocks and a breeze block structure built at the end. Around the top, of the firing point has been fenced protecting a walkway with timber decking. On the east side of the mound are two brick pillars supporting a concrete slab covered in asphalt. This platform formerly supported two pottery towers, the bases adhering to the platform are 1m in diameter. At the base of this structure is a pile of broken process earthenware.

Historic artefacts - Fume Piipe earthenware at base of east side.



## THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER S17	OLD SERIES	RCHME NUMBER	N.G.R. TL 37998 01932
NAME/FUNCTION Expense Magazine Control Room	START DATE 1941 194?	END DATE 195? 198?	
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION  > 1940    WASC 900/91A 1954      A - B.34 c1960     WASC 900/94 c1963     WASC 900/97 ; S17 1972      WASC 900/102 ; S17 1972      WASC 900/104 ; S17 1976      WASC 900/113 ; S17		DOCUMENTARY REFERENCES  1972      ERDE List ; Expense Magazine 1991      Mott McDonald survey ; Expense Magazine 1992      RARDE List ; Expense Magazine 1992      FBRC Control room for S16	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME 1) 206/B/8 From North West	
RELATIONSHIPS WITH OTHER MONUMENTS  ASSOCIATED WITH: S16			
CONDITION      Fair			
DESCRIPTION 1)      CONSTRUCTIONAL MATERIAL Brick in English Bond  2)      ROOF MATERIALS AND STRUCTURE Flat concrete slab  3)      POWER SOURCE Electricity  4)      DIMENSIONS i) L 3.17 ii) W 3.15 iii) HT 2.80  5)      The magazine was entered through a single door on the southwest side. The building has largely been stripped, a high shelf and some coat hooks remain on the west side.			

## THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER S18	OLD SERIES	RCHME NUMBER	N.G.R. TL 38040 01923
NAME/FUNCTION Part of Nitrator S16 Compressor Room		START DATE 1940 1950	END DATE 195? 198?
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
> 1940 WASC 900/91A 1954 A - B.34 c1960 WASC 900/94 c1963 WASC 900/97 ; S18 1972 WASC 900/102 ; S18 1972 WASC 900/104 ; S18 1976 WASC 900/113 ; S18		Plans; S18 B01 - B07 ; Plan and Elevations 1940 to 1941  1972 ERDE List ; Remains of shed 1991 Mott McDonald survey 1992 RARDE List ; Remains of shed 1992 FBRC Compressor Room	
PHOTOGRAPHY HISTORIC  PRO Supply 5/863 August 1940 342		PHOTOGRAPHY RCHME 1) 206/B/15 From South 206/B/16 From South East 2) BB92/26369 S18 Drawing S18.B.02 Pipework General Arrangement 20.May.1940 (MOD Chessington)	
RELATIONSHIPS WITH OTHER MONUMENTS  PART OF: S16			
CONDITION Fair			
DESCRIPTION 1) CONSTRUCTIONAL MATERIAL Concrete  3) POWER SOURCE Electricity  4) DIMENSIONS i) L 17.29 ii) W 6.05  5) All that remains of S18 is a raised concrete platform on the southern side of the nitrator S16. On top of the platform were two buildings set on a low concrete sills to which the timber frame was bolted. The walls were covered by asbestos sheets secured by copper nails. The whole of the platform appears to have once been covered. The original plans of the building show tanks placed on the platform ,to serve the nitrator. A photograph in PRO Supply 5/863 shows a timber building on top of the platform painted in camouflage paint.			

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER S19	OLD SERIES 24/107	RCHME NUMBER	N.G.R. TL 37964 01918
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NAME/FUNCTION Washing House Firing Point No 2	START DATE 1941 195?	END DATE 1945 198?
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NO PHOTOGRAPHY  
AVAILABLE

**CARTOGRAPHIC DEPICTION**

> 1940 WASC 900/91A  
 1954 A - B.34  
 c1960 WASC 900/94 ; 24/107  
 c1963 WASC 900/97 ; S19  
 1972 WASC 900/102 ; S19  
 1972 WASC 900/104 ; S19  
 1976 WASC 900/113 ; S19

**DOCUMENTARY REFERENCES**

Plans  
 S19 B01 - B34 ; Plans and Elevations 1940 to 1982  
  
 1972 ERDE List ; Firing Point No.2  
 1991 Mott McDonald survey ; Firing Point No.2 (All.5)  
 1992 RARDE List ; Firing Point No.2  
 1992 Explosives Magazine

**PHOTOGRAPHY  
HISTORIC**

**PHOTOGRAPHY  
RCHME**  
 1) 206/B/14 From top of S16  
 206/T/27 Looking to the South  
 2) BB92/26134 Nitroglycerine gutter support from  
 South west  
 BB92/26137 Wash house from North East  
 BB92/26138 Wash house from North East  
 BB92/26139 Washgutter support stanchions from  
 North West  
 BB92/26149 Interior from South West  
 BB92/26348 S19 Drawing S.19.B.27 Detail of  
 Nitroglycerine Gutter 30.Jan.1940 (MOD Chessington)  
 BB92/26371 S19 Drawing S19.B.25 Plenum Heating  
 arrangement or Washing House 7.Jan.1941 (MOD  
 Chessington)

**RELATIONSHIPS WITH OTHER MONUMENTS**

ASSOCIATED WITH: S16, S21, S23

CONDITION Fair

DESCRIPTION

1) CONSTRUCTIONAL MATERIAL  
Concrete and Earthwork

2) ROOF MATERIALS AND STRUCTURE  
Part concrete slab

3) POWER SOURCE  
Electricity

4) DIMENSIONS i) L 12.1 ii) W 12.65

5) The structure was originally built as a washing house for the nitrator S16. It is believed that the plant was never used for the production of nitroglycerine. The washing house was situated in the centre of a square earthen mound surrounded by slightly battered concrete walls. The building was entered from the north west through a curving tunnel. The wash house would have been served through a straight tunnel from S16 the nitroglycerine gutters carried on concrete stanchions between the buildings. From the wash house the contaminated water would have been channelled through a straight tunnel to the south to the wash water settling house. The nitroglycerine through a tunnel to the west to the Mixing house S21.

The structure has subsequently been converted into a firing point. This has involved the insertion of a massive armoured steel structure into the centre of the mound. The roof of the firing point covered in about 0.30m of soil. From the original northwestern entrance to the mound and the former westerly nitroglycerine tunnel access may be gained to an observation room around three sides of the chamber. Armoured glass panels allow experiments within the chamber to be observed. The tunnel on the eastern side of the mound has been blocked at its inner end where there is a pipe 0.28m in diameter containing wires. Entry into the firing point is through the former wash water tunnel from the south.

## THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER S20	OLD SERIES	RCHME NUMBER	N.G.R. TL 37945 01929
NAME/FUNCTION Plenum Heater House Control Room for S19		START DATE 1941 195?	END DATE 1945 1992
NO PHOTOGRAPHY AVAILABLE			
<p>CARTOGRAPHIC DEPICTION</p> <p>&gt; 1940    WASC 900/91A          1954    A - B.34          c1960    WASC 900/94          c1963    WASC 900/97 ; S20          1972    WASC 900/102 ; S20          1972    WASC 900/104 ; S20          1976    WASC 900/113 ; S20</p>		<p>DOCUMENTARY REFERENCES</p> <p>1972    ERDE List ; Control Room for S19          1991    Mott McDonald survey ; Control Room for S19          (All.5)          1992    RARDE List ; Control Room for S19</p>	
<p>PHOTOGRAPHY HISTORIC</p>		<p>PHOTOGRAPHY RCHME 1) 206/B/11 From West with entrance to S19</p>	
<p>RELATIONSHIPS WITH OTHER MONUMENTS</p> <p>ASSOCIATED WITH: S19</p>			
<p>CONDITION      Fair</p>			
<p>DESCRIPTION</p> <p>1)    CONSTRUCTIONAL MATERIAL          Brick English Bond</p> <p>2)    ROOF MATERIALS AND STRUCTURE          Flat Concrete slab</p> <p>3)    POWER SOURCE          Electricity</p> <p>4)    DIMENSIONS    i) L 3.15 ii) W 3.14    iii) HT 2.6</p> <p>5)    The building is a single storey structure with a single door on the west side. Inside the building is a wash basin and fuse boxes. on the southern external wall are switch boxes for S19 and S20.</p>			

## THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER S21	OLD SERIES 24/110	RCHME NUMBER	N.G.R. TL 37906 01896
NAME/FUNCTION Mixing House Large Magazine		START DATE 1941 195?	END DATE 1945 1992
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION  > 1940    WASC 900/91A 1954     A - B.34 c1960    WASC 900/94 c1963    WASC 900/97 ; 24/110 1972     WASC 900/102 ; S21 1972     WASC 900/104 ; S21 1976     WASC 900/113 ; S21		DOCUMENTARY REFERENCES  Plans; S21     B01 - B12 ; Plans and Elevations 1940 to 1985  1972    ERDE List ; Large Magazine (derelict) 1991    Mott McDonald survey ; Proof Stand (All.5) 1992    RARDE List ; Large Magazine (derelict)	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME 1) 206/B/12 Nitroglycerine gully support leading from S19 206/B/13 Nitroglycerine gully stanchions leading to S21 from S19 206/B/23 Entrance from South 206/B/28 Railway rom North East 206/B/29 Entrance tunnel from South West 206/B/30 Porch, rails & Firing point from South 2) BB92/26150 Interior showing wooden rails BB92/26151 Interior & Nitroglycerine gully from South BB92/26379 S21 Drawing S21.B.09 Plenum Heating arrangements 10.Jan.1941 (MOD Chessington)	
RELATIONSHIPS WITH OTHER MONUMENTS  ASSOCIATED WITH: S19			
CONDITION		Fair	

DESCRIPTION

1) CONSTRUCTIONAL MATERIAL  
Brick and Earthwork

3) POWER SOURCE  
Electricity

4) DIMENSIONS i) L 12.6 ii) W 10.0 iii) HT 3.5

5) S21 was originally constructed during the second world war as a Mixing house as part of the New Hill Nitroglycerine Factory. It is believed that the factory was never operational. The building was sited in the centre of a square earthen traverse revetted by gently battered concrete walls. It was intended that the nitroglycerine would have been run along a gutter from the washing house S19 to the mixing house. The concrete stanchions to support the gutter survive along the footpath between S19 and S21. The nitroglycerine would have then entered the mixing house along a straight concrete tunnel through the traverse and into the mixing house. A section of the wooden support shelf remains insitu along the south side of the tunnel, the shelf was constructed with copper screws and was covered by a canvas strip. The mixing house (demolished) was a timber framed structure, 8m x 5m, with a loading porch on the west side. The frame was bolted to a low sill wall, the floor was asphalt. The building was originally served by the narrow gauge railway system through straight tunnels from the north and south. The rails remain insitu within the northern tunnel. As the rails approach the entrance porch to the building the metal rails give way to teak rails.

Part of this structure has subsequently been adapted as a firing point by the blocking of the northern tunnel at either end.

Historic artefacts - wooden nitroglycerine gutter support in the eastern tunnel

## THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER S22	OLD SERIES	RCHME NUMBER	N.G.R. TL 37921 01874
NAME/FUNCTION Plenum Heater House Control Room	START DATE 1941 195?	END DATE 1945 1992	
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION  > 1940    WASC 900/91A 1954      A - B.34 c1960     WASC 900/94 c1963     WASC 900/97 ; S22 1972      WASC 900/102 ; S22 1972      WASC 900/104 ; S22 1976      WASC 900/113 ; S22		DOCUMENTARY REFERENCES  1972    ERDE List ; Control Room 1991    Mott McDonald survey (All.5) 1992    RARDE List ; Control Room	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME 1) 206/B/22 From South	
RELATIONSHIPS WITH OTHER MONUMENTS  ASSOCIATED WITH: S21			
CONDITION      Fair			
DESCRIPTION 1)    CONSTRUCTIONAL MATERIAL Brick in English Bond  2)    ROOF MATERIALS AND STRUCTURE Flat Concrete slab  3)    POWER SOURCE Electricity  4)    DIMENSIONS i) L 3.16 ii) W 3.14 iii) HT 2.6  5)    The building is a single storey structure with a single door on the south side. To the west is a slit window and to the north wooden louvre vent. The interior has three small concrete bases and some switch gear and steam pipe valve.			



## THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER S23	OLD SERIES 24/108	RCHME NUMBER	N.G.R. TL 37954 01857
NAME/FUNCTION Wash Water Settling House Large Nitration Plant		START DATE 1941 195?	END DATE 1945 1992
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION  > 1940    WASC 900/91A 1954     A - B.34 c1960    WASC 900/94 ; 24/108 c1963    WASC 900/97 ; S23 1972     WASC 900/102 ; S23 1972     WASC 900/104 ; S23 1976     WASC 900/113 ; S23		DOCUMENTARY REFERENCES  Plans; S23      B01 - B08 ; Plans and Elevations 1940 to 1941  1972     ERDE List ; Large Nitration Plant 1991     Mott McDonald survey (All.5) 1992     RARDE List ; Large Nitration Plant	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME 1) 206/B/20 Entrance tunnel from South 206/B/21 Interior & exit tunnel from North 206/B/25 From South showing Earthenware gully	
RELATIONSHIPS WITH OTHER MONUMENTS  ASSOCIATED WITH: S16, S19, S24, S25			
CONDITION Fair			

DESCRIPTION

- 1) CONSTRUCTIONAL MATERIAL  
Concrete and Earthwork
- 2) ROOF MATERIALS AND STRUCTURE  
Timber with felt covering
- 3) POWER SOURCE  
Electricity
- 4) DIMENSIONS i) L 19.0 ii) W 10.4
- 5) This structure was built as a wash water settling house as part of the the New Hill Nitroglycerine factory laid out during the second world war. It is believed that the factory was never operational.

The building lay in the centre of a rectangular earthen traverse within a concrete lined cellar 1.6m in depth. The building was timber framed covered by flat asbestos sheets bolted to low concrete sill walls. It measured 16.4m x 7.5m. At ground level on the eastern side are the footing of a small lobby area. Within the well of the building are two circular concrete bases covered by asphalt, diameters 5m and 0.88m each with a height of 0.7m. The Wash Water Settling tank originally sitting on the larger of the two bases (see drwg .S23 BO6 28-12-40). It was intended that the water used in the washing of nitroglycerine would be channelled into the building through a tunnel on the north side. Two rows of concrete stanchions link it to S16 and S19 originally intended to carry a wooden gutter. After the settling process the water was discharged along a tunnel to the south in direction of the Flume house S25. In the base of this tunnel is a open white earthen ware drain. It is unclear whether or not this drain was originally open or whether it had a metal pipe within it packed around with clay.

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER S24	OLD SERIES	RCHME NUMBER	N.G.R. TL 37950 01833
NAME/FUNCTION Plenum Heater House Small Brick Building		START DATE 1941 195?	END DATE 1945 198?
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION  > 1940    WASC 900/91A 1954     A - B.34 c1960    WASC 900/94 1976     WASC 900/113 ; S24		DOCUMENTARY REFERENCES  Plan; S24     B01 - 10/6/41 ; Plenum Heater House  1972    ERDE List ; Small Brick Building 1991    Mott McDonald survey (All.5) 1992    RARDE List ; Small Brick Building	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME 1) 206/B/24 From South	
RELATIONSHIPS WITH OTHER MONUMENTS  ASSOCIATED WITH: S23			
CONDITION     Fair			
DESCRIPTION 1)    CONSTRUCTIONAL MATERIAL Brick in English Bond  2)    ROOF MATERIALS AND STRUCTURE Flat Concrete slab  3)    POWER SOURCE Electricity  4)    DIMENSIONS i) L 3.46 ii) W 3.16 iii) HT 2.55  5)    The building is a single storey structure with a single door on the south side. On the west side at ground level is a wooden louvre vent. On the north side there is a slit opening. The interior has three small concrete bases and a fuse box along with steam pipes.			

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER S25	OLD SERIES	RCHME NUMBER	N.G.R. TL 37944 01804
NAME/FUNCTION Flume Unit House Charge Assembly		START DATE 1941 195?	END DATE 1945 198?
NO PHOTOGRAPHY AVAILABLE			
<p>CARTOGRAPHIC DEPICTION</p> <p>&gt; 1940 WASC 900/91A 1954 A - B.34 c1960 WASC 900/94 c1963 WASC 900/97 ; S25 1972 WASC 900/102 ; S25 1972 WASC 900/104 ; S25 1976 WASC 900/113 ; S25</p>		<p>DOCUMENTARY REFERENCES</p> <p>Plans; S25 B01,B02 ; Plans and Elevations 1941</p> <p>1972 ERDE List ; Charge Assembly 1991 Mott McDonald survey ; Charge Assembly (All.5) 1992 RARDE List ; Charge Assembly</p>	
<p>PHOTOGRAPHY HISTORIC</p>		<p>PHOTOGRAPHY RCHME</p> <p>1) 206/B/26 From East 206/B/27 From South East 206/T/24 Interior from East 206/T/25 Earthernware trough to West 206/T/26 Earthernware trough to West</p> <p>2) BB92/26140 Flume house from North East BB92/26155 Earthernware gullies leading to S25 BB92/26156 Interior flume house from North</p>	
<p>RELATIONSHIPS WITH OTHER MONUMENTS</p> <p>ASSOCIATED WITH: S16, S23</p>			
<p>CONDITION Fair</p>			

DESCRIPTION

1) CONSTRUCTIONAL MATERIAL  
Asbestos and Concrete walls

2) ROOF MATERIALS AND STRUCTURE  
Asbestos

3) POWER SOURCE  
Electricity

4) DIMENSIONS i) L 17.88 ii) W 3.06 iii) HT 2.95

5) The building is a single storey with a gabled roof, the north and south elevations each have four small windows. Traces of wavy camouflage paint remain on the exterior of the building. The building was entered through two single doors on the east side giving access into a lobby or changing area. A further door then gave access into a long narrow room with a path along the northern side of the building leading to a single door to the south. In the centre of this room is a channel 1.15m in width and 0.10m in depth. To either side of this channel were seven pairs of leg settings 0.35m x 0.35m. At the western end the channel was drained by a metal pipe into a concrete tank. Over the tank was a metal extractor hood served by a fan attached to the north wall. From the tank the water drained southwards into an open earthenware drain and then into Cornmill Stream. A metal pipe packed around remains insitu for part of the length of this drain perhaps indicating the other earthenware drains originally also contained metal pipes.

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER S26	OLD SERIES	RCHME NUMBER	N.G.R. TL 37909 01847
NAME/FUNCTION Toilet Block		START DATE 1941	END DATE
NO PHOTOGRAPHY AVAILABLE			
<p>CARTOGRAPHIC DEPICTION</p> <p>&gt; 1940 WASC 900/91A 1954 A - B.34 c1960 WASC 900/94 c1963 WASC 900/97 ; S26 1972 WASC 900/102 ; S26 1972 WASC 900/104 ; S26 1976 WASC 900/113 ; S26</p>		<p>DOCUMENTARY REFERENCES</p> <p>1972 ERDE List ; Toilet Block 1991 Mott McDonald survey (All.5) 1992 RARDE List ; Toilet Block</p>	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
<p>RELATIONSHIPS WITH OTHER MONUMENTS</p> <p>ASSOCIATED WITH:</p>			
CONDITION Poor			
<p>DESCRIPTION</p> <p>1) CONSTRUCTIONAL MATERIAL Brick in English Bond</p> <p>2) ROOF MATERIALS AND STRUCTURE Concerte slab</p> <p>4) DIMENSIONS i) L 4.1 ii) W 2.3 iii) HT 2.2</p> <p>5) Closet with two cubicles to the north with buckets in situ roofed by slab. The south end is open with a urinal, it was entered from the east.</p>			

## ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER S42	OLD SERIES	RCHME NUMBER	N.G.R. TL 38090 02155
NAME/FUNCTION Sentry Box		START DATE 1941	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION  > 1940    WASC 900/91A 1954      A - B.34 c1960     WASC 900/94 c1963     WASC 900/97 ; S42 1972      WASC 900/102 ; S42 1972      WASC 900/104 ; S42 1976      WASC 900/113 ; S42		DOCUMENTARY REFERENCES  1972      ERDE List ; Sentry Post 1991      Mott McDonald survey (All.5) 1992      RARDE List ; Sentry Post	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS  ASSOCIATED WITH: S9, S43			
CONDITION      Demolished			
DESCRIPTION  5) No field remains			

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER S43	OLD SERIES	RCHME NUMBER	N.G.R. TL 38087 02142
NAME/FUNCTION Concrete block bunker		START DATE 1941	END DATE
NO PHOTOGRAPHY AVAILABLE			
<p>CARTOGRAPHIC DEPICTION</p> <p>&gt; 1940 WASC 900/91A 1954 A - B.34 c1960 WASC 900/94 c1963 WASC 900/97 ; S43 1972 WASC 900/102 ; S43 1972 WASC 900/104 ; S43 1976 WASC 900/113 ; S43</p>		<p>DOCUMENTARY REFERENCES</p> <p>1972 ERDE List ; Concrete Block Bunker 1991 Mott McDonald survey (All.5) 1992 RARDE List ; Concrete Block Bunker</p>	
<p>PHOTOGRAPHY HISTORIC</p>		<p>PHOTOGRAPHY RCHME 1) 206/D/11 15 Feb 1993 From South West</p>	
<p>RELATIONSHIPS WITH OTHER MONUMENTS</p> <p>ASSOCIATED WITH: S9, S42</p>			
<p>CONDITION Fair</p>			
<p>DESCRIPTION</p> <p>1) CONSTRUCTIONAL MATERIAL Breeze block and Timber</p> <p>2) ROOF MATERIALS AND STRUCTURE Concrete</p> <p>4) DIMENSIONS i) L 2.99 ii) W 2.3 iii) HT 2.0</p> <p>5) The sentry post has a single entrance on the south east angle. There are observation slits on all sides formed from breeze blocks laid on their side.</p>			



**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER X3	OLD SERIES S51	RCHME NUMBER	N.G.R. TL 37935 01977
NAME/FUNCTION Sand Bagged Bunker		START DATE 1941?	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
		1972 ERDE List ; Bunker (sand bagged) 1992 RARDE List ; Bunker (sand bagged)	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME 1) 206/B/31 From South West 206/B/32 From South West	
RELATIONSHIPS WITH OTHER MONUMENTS			
ASSOCIATED WITH:			
CONDITION Fair			
DESCRIPTION			
1) CONSTRUCTIONAL MATERIAL Concrete filled sandbags			
4) DIMENSIONS i) L 8.3 ii) W 2.31 iii) HT 2.2			
5) The feature is rectangular and is constructed from concrete filled sandbags to create battered walls. There was an entrance on the north side protected by a blast screen wall. This has been filled with further concrete filled sandbags. A straight joint is visible in the wall. The interior of the feature is sand filled. A drawing (S51 BO1 1.8.73) shows scaffolding supporting a platform on top of the sand bag mound.			

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER	OLD SERIES	RCHME NUMBER 102	N.G.R. TL37575 01973
NAME/FUNCTION Pipe bridge		START DATE 1940	END DATE 1945
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION S-B 39 4.4.41 O-B 24 22.4.41		DOCUMENTARY REFERENCES	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME 1) 206/I/20 From South 206/N/7 Cornmill Stream Bridge	
RELATIONSHIPS WITH OTHER MONUMENTS  ASSOCIATED WITH: Acid factory and New Hill Nitroglycerine Factory			
CONDITION      Poor			
DESCRIPTION 1)      CONSTRUCTIONAL MATERIAL Angle iron  4)      DIMENSIONS i) L      ii) W      iii) HT  5)      The bridge carried an acid pipe, compressed air pipe and steam pipe from the acid factory to the new nitro-glycerine hill to the east of the site. It is believed that the acid pipe was never used. Drawing S-B 39 Shows pipe sizes: 3"-3.5" Steam main 2.5" Mixed acid 2" Waste acid 2" compressed air line			

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER	OLD SERIES	RCHME NUMBER 234	N.G.R. TL37575 01973
NAME/FUNCTION Nitroglycerine Drowning Pond		START DATE 1940	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS  ASSOCIATED WITH: ? S16			
CONDITION      Good			
DESCRIPTION 1)      CONSTRUCTIONAL MATERIAL Earthwork  4)      DIMENSIONS iv)DIA  5)      A circular bank, height 0.8m width 5.4m encloses a pond.			

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER	OLD SERIES	RCHME NUMBER 235	N.G.R. TL 38048 01878
NAME/FUNCTION Inspection covers		START DATE 1940?	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS  ASSOCIATED WITH:			
CONDITION      Good			
DESCRIPTION 1)      CONSTRUCTIONAL MATERIAL Concrete  4)      DIMENSIONS i) L 6.55m ii) W 1.7m  5)      Concrete drain ducts and three inspection covers.			

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER	OLD SERIES	RCHME NUMBER 255	N.G.R. TL37782 02035 TL37870 01814
NAME/FUNCTION Electric power line		START DATE 1941?	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS  ASSOCIATED WITH: S2			
CONDITION      Fair			
<p>DESCRIPTION</p> <p>1)      CONSTRUCTIONAL MATERIAL          Timber poles</p> <p>2)      ROOF MATERIALS AND STRUCTURE          -</p> <p>3)      POWER SOURCE          Electricity</p> <p>4)      DIMENSIONS i) L      ii) W      iii) HT</p> <p>5)      Overhead power line connecting to transformer house S2, the cable is generally supported on small brown insulators although large white insulators are used on changes of direction.</p>			

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER	OLD SERIES	RCHME NUMBER 256	N.G.R. TL37852 01884 TL37880 01836
NAME/FUNCTION Telegraph wire		START DATE 1941?	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS			
ASSOCIATED WITH:                      PART OF:                      CONSISTS OF: CUTS:              CUT BY:              ABUTTS:              ABUTTED BY:              OVERLIES:              UNDERLIES:			
CONDITION              Poor			
DESCRIPTION 1)              CONSTRUCTIONAL MATERIAL Wooden pole  2)              ROOF MATERIALS AND STRUCTURE -  3)              POWER SOURCE Electricity  4)              DIMENSIONS i) L              ii) W              iii) HT              iv) DIA  5)              Line of telegraph poles one stamped GPO 28L 39 (1939?), insulators bitumen solid types stamped LE GPO 47, screw tops T GPO 47.			

