

**THE ROYAL GUNPOWDER FACTORY,  
WALTHAM ABBEY, ESSEX**

**S28-S90**



**(C) RCHME CROWN COPYRIGHT**

ROYAL  
COMMISSION  
ON THE  
HISTORICAL  
MONUMENTS  
OF ENGLAND



**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER S28	OLD SERIES	RCHME NUMBER	N.G.R. TL 37638 02004
NAME/FUNCTION Guncotton Stove No.14		START DATE 1940	END DATE 1943
NO PHOTOGRAPHY AVAILABLE			
<p>CARTOGRAPHIC DEPICTION</p> <p>&gt; 1940 WASC 900/91A ; S28          1954 A - B.34 ; S28          c1960 WASC 900/94 ; S28          c1963 WASC 900/97 ; S28          1972 WASC 900/102 ; S28          1972 WASC 900/104 ; S28          1976 WASC 900/113 ; S28</p>		<p>DOCUMENTARY REFERENCES</p> <p>1944 Record Drawing 0 14 B01 Plans and elevations          No.14 Guncotton Stove          1972 ERDE List ; Mixing House No.5 (burnt out) 1943          1991 Mott McDonald survey          1992 RARDE List ; Mixing House No.5 (burnt out)</p>	
<p>PHOTOGRAPHY HISTORIC</p>		<p>PHOTOGRAPHY RCHME</p> <p>1) 206/U/15 Entrance from south east          206/U/16 Entrance looking out          206/U/17 Entrance from east</p>	
<p>RELATIONSHIPS WITH OTHER MONUMENTS</p> <p>ASSOCIATED WITH: RCHME 206, RCME 207, RCHME 208, RCHME 289 OVERLIES 75</p>			
<p>CONDITION Fair</p>			

DESCRIPTION

1) CONSTRUCTIONAL MATERIAL  
Breeze block and earthwork

2) ROOF MATERIALS AND STRUCTURE

3) POWER SOURCE  
Steam heating, electricity

4) DIMENSIONS iv) DIA 10.6m

5) The Mixing house is circular in shape. The Mixing house was enclosed by a circular breeze block revetment wall 10.6m in diameter surrounded by an earthen traverse. On the north side the traverse partly overlies the mass concrete traverse of 75. Inside the revetment wall is a circular platform separated from the wall by a gully 0.6m in width and 0.25m deep. On this internal circular platform formerly stood a timber drying stove served by a fan house RCHME 208 to the north. The Mixing house was timber framed, bolted to the concrete base, with sheet asbestos sides. Fragments of reinforced window glass were found within the building. The stove was served by the canal RCHME 289 from the east along a covered entrance tunnel. The Mixing house is presently entered over a timber bridge. The bridge blocks the canal it crosses and is there thought to be post war in origin.

The functional descriptions given by the EDRE and RARDE Lists are considered to be unreliable and the original drawing description is preferred. Additionally the physical remains of the building are inconsistent with that of a Mixing House.

*Historic Artefacts collected and archived Nov. 94.*

## THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER S29	OLD SERIES	RCHME NUMBER	N.G.R. TL 37666 01944
NAME/FUNCTION Detonator store		START DATE 1940?	END DATE 1991?
NO PHOTOGRAPHY AVAILABLE			
<b>CARTOGRAPHIC DEPICTION</b>  > 1940    WASC 900/91A 1954      A - B.34 c1960    WASC 900/94 ; S29 c1963    WASC 900/97 ; S29 1972      WASC 900/102 ; S29 1972      WASC 900/104 ; S29 1976      WASC 900/113 ; S29		<b>DOCUMENTARY REFERENCES</b>  1972      ERDE List ; Detonator Store 1991      Mott McDonald survey 1992      RARDE List ; Ancillary building to adjacent to S30	
<b>PHOTOGRAPHY HISTORIC</b>		<b>PHOTOGRAPHY RCHME</b>  1) 206/H/28 From south west	
<b>RELATIONSHIPS WITH OTHER MONUMENTS</b>  ASSOCIATED WITH: S29a, S90 RCHME 115 OVERLIES: 87			
CONDITION      Good			
<b>DESCRIPTION</b> 1)      CONSTRUCTIONAL MATERIAL Breeze block  2)      ROOF MATERIALS AND STRUCTURE Flat concrete slab  3)      POWER SOURCE None  4)      DIMENSIONS i) L 3.4m ii) W 2.4m iii) HT 2.3m  5)      The store is single storeyed with a rectangular ground plan. It was entered through a single red painted door on the northwest elevation. A telegraph pole attached to the southern side of the building has insulators dated 1940.  This building may partly overlie [87], Sweepers Hut and Earh Closet built in 187, formerly associated with S90.			

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER S29a	OLD SERIES	RCHME NUMBER	N.G.R. TL 37668 01949
NAME/FUNCTION Shelter		START DATE 1940?	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
> 1940 WASC 900/91A 1954 A - B.34 c1960 WASC 900/94 ; S29a c1963 WASC 900/97 ; S29a 1972 WASC 900/102 ; S29a 1972 WASC 900/104 ; S29a 1976 WASC 900/113 ; S29a			
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME  1) 206/H/28	
RELATIONSHIPS WITH OTHER MONUMENTS  ASSOCIATED WITH: S29, RCHME 115			
CONDITION      Good			
DESCRIPTION			
1) CONSTRUCTIONAL MATERIAL Breeze block  2) ROOF MATERIALS AND STRUCTURE Flat concrete slab  3) POWER SOURCE None  4) DIMENSIONS i) L 3.65m ii) W 2.65m iii) HT 2.1m  5) The shelter is a single storey with a rectangular ground plan. It is opened ended at either end, northeast and southwest.			

Subject **BRIDGE 10, S31 TETRYL FACTORY** To **Graham Vincent**

Date 14th July 1995

---

From **Bob Watts**  
Ref **E5275/63/1/01**

---

Graham,

Outstanding works are:-

- 1) BW to peg out for samples.
- 2) Steam/pressure wash yellow stains from concrete surfaces which will be exposed after filling.
- 3) Scrape part of Old River Lea bed to check for tetryl leakage.
- 4) Remove stand of sycamore to enable excavation and removal of contamination. Groom Old River Lea banks. Excavate around trees near Bridge 10 by hand.
- 5) Pump out pool to adjacent dry canal. Excavate sludge. Apply gravel.
- 6) Apply Terram to surfaces.
- 7) Apply all in ballast minimum 200 - 300mm thick to Terram surfaces, to underside of structures and to slabs.
- 8) Remove tree and trapped asbestos in roots adjacent U6.
- 9) Remove tree adjacent to pit and canal.
- 10) Removed buried tin from area adjacent to S31.

Regards

BOB WATTS.

Copy:- **Steve Chaddock**

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER S30	OLD SERIES	RCHME NUMBER	N.G.R. TL 37659 01925
NAME/FUNCTION Fuse Powder Magazine and Tetryl store		START DATE 1940?	END DATE
NO PHOTOGRAPHY AVAILABLE			
<p>CARTOGRAPHIC DEPICTION</p> <p>&gt; 1940 WASC 900/91A ; S30          1954 A - B.34 ; S30          c1960 WASC 900/94 ; S30          c1963 WASC 900/97 ; S30          1972 WASC 900/102 ; S30          1972 WASC 900/104 ; S30          1976 WASC 900/113 ; S30</p>		<p>DOCUMENTARY REFERENCES</p> <p>1972 ERDE List ; Magazine          1991 Mott McDonald survey          1992 RARDE List ; Fuse powder Magazine and tetryl store</p>	
<p>PHOTOGRAPHY HISTORIC</p>		<p>PHOTOGRAPHY RCHME</p> <p>1) 206/H/27 From south west          206/H/33 Roof Truss</p> <p>2) BB92/26112 From south west          BB92/26113 From south west</p>	
<p>RELATIONSHIPS WITH OTHER MONUMENTS</p> <p>ASSOCIATED WITH: RCHME 115, RCHME 289 ABUTTS S90 OVERLIES 91</p>			
CONDITION		Fair	



DESCRIPTION

- 1) CONSTRUCTIONAL MATERIAL  
Breeze block, earthwork, timber frame
- 2) ROOF MATERIALS AND STRUCTURE  
King post trusses with braces
- 3) POWER SOURCE  
Steam heating
- 4) DIMENSIONS i) L 28m ii) W 12m iii) HT 3m
- 5) The magazine has been demolished a concrete floor slab 11m x 7.7m remains. Propped against the revetment wall are two king post with braces trusses that were retrieved from this building. The magazine sat within a rectangular traverse of breeze block walls with an earthen traverse on a sides except the north. The traverse overlies an earlier building 91, the canal that formerly surrounded this building was also probably filled at this time. The northern wall is of breeze block with an entrance gap, a towpath runs along its northern edge. The initiative for this building probaly came after its predecessor was damaged in the accidental explosion of 63 in 1940. The magazine was served by canal RCHME 289.

*Historic portable artefacts collected + archived Nov. 94.*

*fill of canal s excavated in 1994.*

*Bridge abutments in back behind (E) 330 show position  
of footbridge.*

*Walls of canal boathouse to north under the road (removed)*

## THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER S31	OLD SERIES 93	RCHME NUMBER	N.G.R. TL 37600 01844
---------------	------------------	--------------	--------------------------

NAME/FUNCTION	START DATE	END DATE
Press House No.4	1879	by1886
No.1 Moulding House	by1886	1898?
Cylinder Cutting House	1898?	by 1908
Cordite Blending House	by1908	1917?
CE Packing House	1917?	by 1940
CE Store No.1	by 1940	1945

NO PHOTOGRAPHY  
AVAILABLE

CARTOGRAPHIC DEPICTION	DOCUMENTARY REFERENCES
1886 WASC 900/38 + SUPP5 975 ; No 1 Moulding House	Plan and elevation No.1 Moulding House - shows timber framed building in centre of traverse, small rooms on south elevation west side Shoe Room east room Store, both lit by circular slights
1886 WASC 900/41A	RCHME Neg. BB92/26362
1886 WASC 900/42	1908 RGPF Ledger WASC 1509 + WASC 1764 ; Blending House and Shoe Room built 1879 p9
1886 WASC 900/41A No1 Moulding House	c1925 RGPF Ledger WASC 1680
1897 WASC 900/53C	c1945 RGPF Ledger WASC 1508 ; Blending House and Shoe Room
c1900 WASC 900/79 Cylinder Cutting House	
c1910 WASC 900/65	
c1910 WASC 900/79	
1917 WASC 900/70	
1917 WASC 900/72	
1919 WASC 900/74	
c1920 WASC 900/80	1972 ERDE List ; Asbestos Hut
1923 WASC 900/84 ; CE Packing House	1991 Mott McDonald survey
> 1940 WASC 900/91A	1992 RARDE List ; Demolished gunpowder store/retaining walls only
1940 Proc Court Inquiry 20-Apr-1940 appendix I CE Store No.1	
1954 A - B.34 ; S31	
c1960 WASC 900/94 ; S31	
c1963 WASC 900/97 ; S31	
1972 WASC 900/102 ; S31	
1972 WASC 900/104 ; S31	
1976 WASC 900/113 ; S31	

<p>PHOTOGRAPHY HISTORIC</p> <p>PRO Supply 5/861 349 (1918?)</p>	<p>PHOTOGRAPHY RCHME</p> <p>1) 206/H/21 From South 206/H/22 From West 206/H/36 From South 201/O/23 Pole dated 1892 Powerline leading to S31</p> <p>2) BB92/26106 View from South East BB92/26107 View from East BB92/26108 View from East BB92/26345 New Press House 9.4.? BB92/26362 Plan and Elevation date ?</p>
<p>RELATIONSHIPS WITH OTHER MONUMENTS</p> <p>ASSOCIATED WITH: L149?, L136?, RCHME 289, Tetryl Factory post 1917</p>	
<p>CONDITION Fair</p>	
<p>DESCRIPTION</p> <p>1) CONSTRUCTIONAL MATERIAL Brick, concrete, earthwork</p> <p>2) ROOF MATERIALS AND STRUCTURE Part brick vaulted</p> <p>3) POWER SOURCE Hydraulic from L149?</p> <p>4) DIMENSIONS i) L 23.4m ii) W 9.65m iii) HT 5.35m</p> <p>5) The Press House has been demolished however a substantial contemporary traverse remains. The south elevation is in buff coloured brick with red brick details. This elevation has two bays separated by a brick entrance tunnel, these openings have semi-circular heads with red brick detail. Over the entrance tunnel is stone plaque inscribed 'No.4 press House 1879'. Running along the top of this elevation is a brick dentil course. Each of the bays was formerly open but they have been blocked by brick walls the curve of the arch covered by a glazed? timber frame. Doors have been knocked into these two rooms from the entrance tunnel, roof vents also have been added. Attached to the this elevation is a metal contraband box and below this a boot scraper. In from of the building are two vertical rivetted iron beams. It has been suggested that these beams may represent the remains of a small weight loaded accumulator (pers. comm. Tim Smith). Attached to the Southwest corner of the building is a klaxon and four late nineteenth century type pottery overhead line insulators.</p> <p>The Presshouse was entered through the tunnel described. It sat at the centre of a massive traverse, the traverse consists of a brick facing laid in English bond with a concrete backing enclosed on the north and east sides by an earthen traverse. The loss of earth on the southern part of the earthen traverse had been removed by about 1917 (Supply 5/861 349). The Presshouse was served from the west by canal RCHME 289. Within the traverse are the partly buried brick footings of a building. On the internal southern wall of the traverse leading to the eastern bay is a small segmental headed arch, height 0.355m width 0.32m this may represent position of hydraulic pipe used to power the press.</p> <p><i>Historic portable artefacts collected + archived Nov. 94.</i></p>	

*+ Western open side of Presshouse finished with single course of chamfered Staff. Blue engineering bricks. Immediately to west of Presshouse & remains of wooden uprights to support a <sup>loading</sup> bay were discovered in the canal bed. Timber uprights continue in a southerly direction behind the water reinforced concrete piles that now form the edge of the canal RCHME 289.*

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER S32	OLD SERIES	RCHME NUMBER	N.G.R. TL 37665 01850
---------------	------------	--------------	--------------------------

NAME/FUNCTION Tetryl Corning House	START DATE 1918	END DATE
---------------------------------------	--------------------	----------

NO PHOTOGRAPHY  
AVAILABLE

<p><b>CARTOGRAPHIC DEPICTION</b></p> <p>1919 WASC 900/74  c1920 WASC 900/80  1923 WASC 900/84 ; 92 CE Corning House  &gt; 1940 WASC 900/91A  1954 A - B.34 ; S32  c1960 WASC 900/94 ; S32  c1963 WASC 900/97 ; S32  1972 WASC 900/102 ; S32  1972 WASC 900/104 ; S32  1976 WASC 900/113 ; S32</p>	<p><b>DOCUMENTARY REFERENCES</b></p> <p>Plans;  S32 B01 - B05 ; Plans and Elevations 1918 to 1973</p> <p>c1925 RGPF Ledger WASC 1680 ; CE Corning House  c1945 RGPF Ledger WASC 1508 ; CE Corning House</p> <p>1972 ERDE List ; Store and Magazine  1991 Mott McDonald survey  1992 RARDE List ; Tetryl Corning House/base only</p>
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

<p><b>PHOTOGRAPHY HISTORIC</b></p> <p>PRO Supply 5/861 352 CE Corning house 25-apr-1919  PRO Supply 5/861 352 Interior 25-apr-1919</p>	<p><b>PHOTOGRAPHY RCHME</b></p>
--------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------

**RELATIONSHIPS WITH OTHER MONUMENTS**

ASSOCIATED WITH: S33, S39, S40

**CONDITION** Demolished

**DESCRIPTION**

- 1) CONSTRUCTIONAL MATERIAL  
Brick
- 2) ROOF MATERIALS AND STRUCTURE
- 3) POWER SOURCE  
Electricity?
- 4) DIMENSIONS i) L 25.9m ii) W 9.8m
- 5) The building has been demolished, an E shaped concrete floor slab remains.

An interior photograph Supply 5/861 353 shows corning machines by Werner Pfleiderer Perkins in use, one of the machines is numbered No.4169. The machines were powered by overhead belt drives.

*Steve Chaddock MA AMA  
Consultant Archaeologist*

*Royal Gunpowder Mills  
Powdermill Lane  
Waltham Abbey  
Essex  
EN9 1BN*

**MEMORANDUM**

*TO: Bob Watts  
DATE: 9th August 1995*

*FROM: Steve Chaddock  
REF: SC0908.Memo*

---

Bob,

Thank you for the copy of analysis report Ref: 41728. Elevated Tetryl levels demonstrate a need to remove further fill up to the northern curb of the path by S33 slab.

Please advise me if further excavation is expected as an SMC will then be necessary.

Regards

Steve.

66/1/01

S.C.

Pink - Originators copy  
White - Green to Laboratory  
Green - to Originator with replies

### ESG SAMPLE ANALYSIS REQUEST FORM

Serial No.

0803

Consignee

WALTHAM ABBEY - SOUTH SITE  
FROM

Origin of sample(s)

WALTHAM ABBEY - NORTH SITE

Associated Project

SAMPLE FROM UNDER SLAB S33

C/Code

52

Tests required

(Refer to rear of pad for identification code)

D  
(AN URGENT ~~REQUEST~~ SPOT TEST PLEASE)

EACH REQUEST FORM MUST HAVE ONE SAMPLE ANALYSIS TYPE ONLY

Item No.	Sample Number	Laboratory Reference No.	Item No.	Sample Number	Laboratory Reference No.	Item No.	Sample Number	Laboratory Reference No.
1	41728	LNW 1622/95	25			49		
2			26			50		
3			27			51		
4			28			52		
5			29			53		
6			30			54		
7			31			55		
8			32			56		
9			33			57		
10			34			58		
11			35			59		
12			36			60		
13			37			61		
14			38			62		
15			39			63		
16			40			64		
17			41			65		
18			42			66		
19			43			67		
20			44			68		
21			45			69		
22			46			70		
23			47			71		
24			48			72		

(Delete non applicable type)

SAMPLE TYPE	<input type="checkbox"/> Asbestos	<input type="checkbox"/> CW Agent	<input type="checkbox"/> Chemical Hazard	<input type="checkbox"/> Explosive
	Other (please state)			

Brief description of sample(s)

SOIL

Unusual characteristics (if any)

YELLOW COLOUR

Any special precautions/handling required? (Please state)

EXPLOSIVES / CHEMICAL / ASBESTOS

Sampled by

R.O.

Date sampled

2/8/95

Time sampled

N/A

Submitted by

R. DAWES

Date submitted

3/8/95

Sample Qty

1

#### FOR LABORATORY USE ONLY

Date sample(s) received

3/8/95

Received by

J. KHAMBAITA

Date analysis initiated

3/8/95

REMARKS:

# ANALYSIS REPORT

SITE: RARDE - North Site	REF: 41728	ORIGINATOR: R. DAWES
LABORATORY REFERENCE: LNW 1622/95	ANALYST: JK	DATE OF ANALYSIS: 3/8/95

## SAMPLE DESCRIPTION/SPECIAL NOTES

**SAMPLE PROCESSING**

SAMPLE VISUALLY INSPECTED. ALL SUSPECT MATERIAL SAMPLED TOGETHER WITH A QUANTITY OF HOMOGENEOUS MATERIAL. MAGNESIUM SULPHATE (20g) DRYING AGENT WAS ADDED AND THE SAMPLE EXTRACTED WITH 50ML OF ACETONE, FOR 2 HRS. EXTRACT THEN SPOT TESTED BY SPOT TEST 1 AND SPOT TEST 2.

ANALYTICAL PROCEDURES: <sup>MODIFIED</sup> TRANSPORT METHOD      EXTRACTION SOLVENTS: ACETONE

## RESULTS

QUALITATIVE TESTING			
COLORIMETRIC TEST	1	2	3a
POSITIVE	✓		
NEGATIVE			

  

QUANTITATIVE TESTING			
EXPLOSIVE	CALIBRATION LEVEL	ESTIMATED DETECTION LIMIT	LEVEL DETERMINED
NC			
HMX			
RDX			
EGDN			
TETRYL	1%		> 1%
NG			
TNT			
PETN			
HNS			
PICRITE			
PICRIC ACID			
OTHER:			

  

SUSPECT MATERIAL Y/N	RESULT OF TESTING:
----------------------	--------------------

NOTES:

SAMPLE SENTENCE OPTIONS:      A) No explosive detected  
                                                  B) Below 1000ppm Explosive detected  
                                                  C) Above 1000ppm Explosive detected

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER S33	OLD SERIES 93e	RCHME NUMBER	N.G.R. TL 37718 01778
NAME/FUNCTION Tetryl Incorporating House Curing Oven and Magazine		START DATE 1916	END DATE 1945?
NO PHOTOGRAPHY AVAILABLE			
<p>CARTOGRAPHIC DEPICTION</p> <p>1917 WASC 900/70 1917 WASC 900/72 1919 WASC 900/74 c1920 WASC 900/80 1923 WASC 900/84 ; 93e C E Incorporating House &gt; 1940 WASC 900/91A 1954 A - B.34 ; S33 c1960 WASC 900/94 ; S33 c1963 WASC 900/97 ; S33 1972 WASC 900/102 ; S33 1972 WASC 900/104 ; S33 1976 WASC 900/113 ; S33</p>		<p>DOCUMENTARY REFERENCES</p> <p>1972 ERDE List ; Curing Oven and Magazine 1991 Mott McDonald survey ; Tetryl Incorporating House Curing Oven and Magazine 1992 RARDE List ; Tetryl Stove</p>	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
<p>RELATIONSHIPS WITH OTHER MONUMENTS</p> <p>ASSOCIATED WITH: S32 , <i>RCHME 565</i></p>			
CONDITION Demolished			
<p>DESCRIPTION</p> <p>1) CONSTRUCTIONAL MATERIAL Brick walls</p> <p>3) POWER SOURCE Electricity</p> <p>4) DIMENSIONS i) L 13.6m ii) W 16.6m</p> <p>5) The building has been demolished a concrete floor slab remains.</p>			



**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER S34	OLD SERIES 34	RCHME NUMBER	N.G.R. TL 37623 02247
NAME/FUNCTION Gunpowder Granulating House/Traverse Cordite Mixing House No.1 Cordite Mixing House No.3 Guncotton Weighing House No.1 Guncotton Weighing House rebuilt Control Room		START DATE 1857 1898 by 1908 by 1940 1940 1968	END DATE 1898? by 1908 by 1940 1940 1945?
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
1865 WASC 900/41A 1865 WASC 900/42 1871 SUPP5/682 Granulating House 1897 WASC 900/53C 1897 OS 2nd Ed Essex XLIX. 10 c1900 WASC 900/79 Mixing House No.3 c1910 WASC 900/65 1917 WASC 900/70 1917 WASC 900/72 1919 WASC 900/74 c1920 WASC 900/80 1923 WASC 900/84 ; Mixing House No.1 > 1940 WASC 900/91A 1940 Proc Court Inquiry 20-Apr-1940 appendix I; 34 Weighing House No.1 1954 A - B.34 ; S34 c1960 WASC 900/94 ; S34 c1963 WASC 900/97 ; S34 1972 WASC 900/102 ; S34 1972 WASC 900/104 ; S34 1976 WASC 900/113 ; S34		Plans; S34 B01 - B04 ; Plans and Elevations 1940  1908 RGPF Ledger WASC 1509 + WASC 1764 ; Mixing House No.1 and Shoe Porch built 1857-8 p3 c1925 RGPF Ledger WASC 1680 ; Mixing House No.1 and Shoe Porch c1945 RGPF Ledger WASC 1508 ; Mixing House No.1 and Shoe Porch  1972 ERDE List ; Control House for Under Water Firing Point 1991 Mott McDonald survey 1992 RARDE List ; Mixing House and Control Room 1992 FBRC Control Room	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
1) PRO Supply 5/860 93 1897 Exterior PRO Supply 5/860 102-3 Newtons Poll and Nitroglycerine Mixing House		1) 206/O/6 Traverse from west 206/O/7 Detail of ?steam pipe 206/O/12 From south 206/O/13 From north east 206/O/16 From south 206/O/28 From south west  2) BB92/26213 View from north east	

RELATIONSHIPS WITH OTHER MONUMENTS

ASSOCIATED WITH: S35, S36, S37, S50, RCHME 276 OVERLIES 31

CONDITION Fair

DESCRIPTION

- 1) CONSTRUCTIONAL MATERIAL  
Brick, Breeze block, timber frame
- 2) ROOF MATERIALS AND STRUCTURE  
Roof felt
- 3) POWER SOURCE  
Water?, later electricity and steam heating
- 4) DIMENSIONS See below

- 5) The earliest part of the structure is the brick traverse to the south of the present building. The traverse is brick laid in English bond with battered walls. It measures 8.9m in length, 5.15m in width and around 5.5m in height. At the southern base of the traverse on the west and east elevations is a small arched brick openings. The opening measures width 0.44m, height 0.49m. The opening is brick filled with a cast iron pipe bore 115mm passing through from side to side.

Late nineteenth century mapping shows a leat carried off Cornmill Stream 22m north of the sluice gates into Newton's Pool RCHME 276. A building, probably lying beneath S34, is shown sitting over this leat adjacent to a longer rectangular building northeast of the traverse. The juxta position of these strongly suggests that a water wheel was housed in the smaller building to power the granulating machines within the larger building. This argument may be reinforced by the absence of the smaller building over the leat by 1923 (WASC 900/84), by which time the buildings either side of the traverse had changed function. To the south of the traverse was building 35, later in its life a bag store, the foundations of this building may lie beneath the concrete slab to the south of the traverse.

The present building overlies an earlier structure probably demolished in 1940. This building lies within a traverse of breeze block and earth. The northern section of the traverse is a breeze block wall while the east and south side consists of a breeze block revetment with an external earthen traverse. The west side is formed by the nineteenth century traverse described above. The southern section of the traverse overlies and fills a leat. The present building is single storeyed with a rectangular ground plan and flat roof. It is wooden framed with asbestos walls. It was entered through double doors and a porch area on the north side and along a tunnel through the traverse on the east side. The tunnel retains traces of the light railway system. The building consists of two cells a large rectangular room with a small rectangular loading room with a single pitch gable roof to the east. The building was originally vented by removable boards set at the top and base to each wall.

Conversion to a control room has involved the partitioning of the larger of the two cells and the insertion of windows into the south elevation.

**WS Atkins**

memorandum

Subject **NEWTONS POOL CANAL**  
**ADJACENT S34**

To **Graham Vincent**

Date **20th June 1995**

---

From **Bob Watts**  
Ref **E5275/19/1/02**

---

Graham,

Canal adjacent S34, please excavate further towards traverse and remove concrete slab and associated fill in route of canal. When excavation complete (do not undermine the traverse) use Terram and a clay ramp to reduce drop. (This area is on the public access route). Steve Chaddock will liaise.

Regards

**BOB WATTS.**

Copy:- **Steve Chaddock**

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER S35	OLD SERIES	RCHME NUMBER	N.G.R. TL 37606 02264
NAME/FUNCTION Information Room and Store		START DATE 1969	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION  1972 WASC 900/102 ; S35 1972 WASC 900/104 ; S35 1976 WASC 900/113 ; S35		DOCUMENTARY REFERENCES  1972 ERDE List ; Info Room and Store 1991 Mott McDonald survey 1992 FARDE List ; Shed 1992 FBRC Workshop and Stores	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME  1) 206/O/10 from south	
RELATIONSHIPS WITH OTHER MONUMENTS  ASSOCIATED WITH: S34, S36, S37, S38, S50			
CONDITION Demolished			
DESCRIPTION  4) DIMENSIONS i) L 7.3m ii) W 4.85m  5) The building has been demolished a concrete floor slab remains.			

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER S36	OLD SERIES	RCHME NUMBER	N.G.R. TL 37598 02236
NAME/FUNCTION Detonator and Explosives Shed		START DATE 1968	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
1972	WASC 900/102 ; S36	1972	ERDE List ; Detonator and Explosives Shed
1972	WASC 900/104 ; S36	1991	Mott McDonald survey
1976	WASC 900/113 ; S36	1992	FARDE List ; Small Storage Shed
		1992	FBRC Class I Day Holding Explosives Magazine
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
		1) 206/O/5 From south	
RELATIONSHIPS WITH OTHER MONUMENTS			
ASSOCIATED WITH: S34, S35, S37, S38, S50			
CONDITION Fair			
DESCRIPTION			
1)	CONSTRUCTIONAL MATERIAL Breeze block		
2)	ROOF MATERIALS AND STRUCTURE Fibreboard with roofing felt		
3)	POWER SOURCE None COMBUSTION ENGINE		
4)	DIMENSIONS i) L 1.84m ii) W 1.15m iii) HT 1.92m		
5)	The magazine is a single storey structure with a rectangular ground plan. It has a single door on the west side. Inside are three shelves, a sign on the door describes it as a day expense magazine. A paper notice inside the building reads 'Expense Magazine, Explosive Limit 20kg Classification 1.1D, Day time use only'		

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER S37	OLD SERIES	RCHME NUMBER	N.G.R. TL 37612 02223
NAME/FUNCTION ?Lifting Frame		START DATE 1968	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
1972	WASC 900/102 ; S37	Plans;	
1972	WASC 900/104 ; S37	S37	B01 - B04 ; Plans and Elevations 1968 to 1974
1976	WASC 900/113 ; S37		
		1972	ERDE List ; Wooden Building on Stilts Newtons Pool
		1991	Mott McDonald survey
		1992	RARDE List ; Wooden building on stilts Newton's Pool
		1992	FBRC Control Room for Pool
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
		1) 206/O/9 from west	
RELATIONSHIPS WITH OTHER MONUMENTS			
ASSOCIATED WITH: S34, S35, S36, S38, S50, Newton's Pool RCHME 276			
CONDITION      Poor			
DESCRIPTION			
1)	CONSTRUCTIONAL MATERIAL Tubular steel, steel		
3)	POWER SOURCE Hydraulics, electricity		
4)	DIMENSIONS i) L 7.9m ii) W 3.8m iii) HT 1.48m		
5)	The base of this structure survives constructed from tubular steel rods and girders. There is a stair case on the west side. Attached to the north side are the remains of electrical switch gear and a hydraulic power system. To the south of the feture leading down to Newton's Pool are a series of concrete steps.		

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER S38	OLD SERIES	RCHME NUMBER	N.G.R. TL 37627 02269
NAME/FUNCTION Brick Bunker		START DATE 1940?	END DATE
NO PHOTOGRAPHY AVAILABLE			
<p>CARTOGRAPHIC DEPICTION</p> <p>&gt; 1940    WASC 900/91A 1954      A - B.34 ; S38 c1960    WASC 900/94 ; S38 c1963    WASC 900/97 ; S38 1972      WASC 900/102 ; S38 1972      WASC 900/104 ; S38 1976      WASC 900/113 ; S38</p>		<p>DOCUMENTARY REFERENCES</p> <p>1972      ERDE List ; Store 1991      Mott McDonald survey 1992      FARDE List ; Brick Bunker 1992      FBRC Control Room for Bunker</p>	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME  1) 206/O/11 from south	
<p>RELATIONSHIPS WITH OTHER MONUMENTS</p> <p>ASSOCIATED WITH: S34, S35, S36, S37, S50, Newton's Pool RCHME 276</p>			
CONDITION      Fair			
<p>DESCRIPTION</p> <p>1)            CONSTRUCTIONAL MATERIAL               Brick laid in English bond</p> <p>2)            ROOF MATERIALS AND STRUCTURE               Flat concrete slab</p> <p>3)            POWER SOURCE               Electricity?</p> <p>4)            DIMENSIONS i) L 3.1m ii) W 2.07m iii) HT 2.2m</p> <p>5)            The building is a single storey structure with a rectangular ground plan. The building was entered through a single door on the south side. There is a splayed window on the north elevation. Attached to the west side is electrical switch gear probably serving S34. The building is painted in yellow and black stripes.</p>			

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER S39	OLD SERIES 95c	RCHME NUMBER	N.G.R. TL 37653 01814
NAME/FUNCTION C.E. Cleaning House No.1 Solvent store		START DATE 1918?	END DATE
NO PHOTOGRAPHY AVAILABLE			
<p>CARTOGRAPHIC DEPICTION</p> <p>1919 WASC 900/74 c1920 WASC 900/80 1923 WASC 900/84 ; 95c CE Cleaning House No.1 &gt; 1940 WASC 900/91A 1954 A - B.34 ; S39 c1960 WASC 900/94 ; S39 c1963 WASC 900/97 ; S39 1972 WASC 900/102 ; S39 1972 WASC 900/104 ; S39 1976 WASC 900/113 ; S39</p>		<p>DOCUMENTARY REFERENCES</p> <p>c1925 RGPF Ledger WASC 1680 ; CE Cleaning House No.1  1972 ERDE List ; Solvent Store for S32 1991 Mott McDonald survey 1992 RARDE List ; Flat concrete base/Solvent store for S32</p>	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME  1) 206/E/33 From north west	
RELATIONSHIPS WITH OTHER MONUMENTS  ASSOCIATED WITH: S32, S40, RCHME 150			
CONDITION      Demolished			
<p>DESCRIPTION</p> <p>1)      CONSTRUCTIONAL MATERIAL          Formerly timber framed</p> <p>2)      ROOF MATERIALS AND STRUCTURE          -</p> <p>3)      POWER SOURCE          Steam heat</p> <p>4)      DIMENSIONS i) L 6.8m ii) W 3.95m</p> <p>5)      The building has been demolished, the internal arrangements however may be reconstructed from the surviving remains of the foundations. The building was originally rectangular in shape comprising a timber framed superstructure on a low brick sill wall, 0.3m in height. The northern side of the building was taken up by an tarmac covered floor a working area. The western side was filled by eight lockers 0.76m in width and 0.97m deep, the floor surface here is a smooth asphalt. The lockers were heated by sixteen warm air pipes entering at ground level served by a fan house RCHME 150 set between S39 and S40. The building was earthed by a copper strip.</p>			



## THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER S40	OLD SERIES	RCHME NUMBER	N.G.R. TL 37662 01812
NAME/FUNCTION C.E. Cleaning House No.2 Solvent store		START DATE 1918?	END DATE
NO PHOTOGRAPHY AVAILABLE			
<b>CARTOGRAPHIC DEPICTION</b> 1919 WASC 900/74 c1920 WASC 900/80 1923 WASC 900/84 ; 95d CE Cleaning House No.2 > 1940 WASC 900/91A 1954 A - B.34 ; S40 c1960 WASC 900/94 ; S40 c1963 WASC 900/97 ; S40 1972 WASC 900/102 ; S40 1972 WASC 900/104 ; S40 1976 WASC 900/113 ; S40		<b>DOCUMENTARY REFERENCES</b> c1925 RGPF Ledger WASC 1680 ; CE Cleaning House No.2 1972 ERDE List ; Slovent Store 1991 Mott McDonald survey 1992 RARDE List ; Flat concrete base/waste store	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
<b>RELATIONSHIPS WITH OTHER MONUMENTS</b> ASSOCIATED WITH: S32, S39, RCHME 150			
<b>CONDITION</b> Demolished			
<b>DESCRIPTION</b> 1) <b>CONSTRUCTIONAL MATERIAL</b> Formerly timber framed on low brick sill walls 2) <b>ROOF MATERIALS AND STRUCTURE</b> 3) <b>POWER SOURCE</b> Steam heating 4) <b>DIMENSIONS</b> i) L 3.85m ii) W 6.82m 5) The building has been demolished, the internal arrangements however may be reconstructed from the surviving remains of the foundations. The building was originally recatangular in shape comprising a timber framed superstructure on a low brick sill wall, 0.3m in height. The northern side of the building was taken up by an tarmac covered floor a working area. The western side was filled by eight lockers 0.76m in width and 0.97m deep, the floor surface here is a smooth asphalt. The lockers were heated by sixteen warm air pipes entering at ground level served by a fan house RCHME 150 set between S39 and S40. The building was earthed by a copper strip.			

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER S46	OLD SERIES 93G	RCHME NUMBER	N.G.R. TL 37810 01708
NAME/FUNCTION C.E. Stove No.7		START DATE June 1940	END DATE 1945?
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION  1954     A - B.34 c1960    WASC 900/94 ; S46 c1963    WASC 900/97 ; S46 1972     WASC 900/102 ; S46 1972     WASC 900/104 ; S46 1976     WASC 900/113 ; S46		DOCUMENTARY REFERENCES  Plans; S46     B01,B02 ; Plans and Elevations  1992 RARDE List - Tetryl Store	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME  1) 206/E/26 From south west 206/E/32 From west 2) BB92/26117 From north west	
RELATIONSHIPS WITH OTHER MONUMENTS  ASSOCIATED WITH: S47, S49, S49, RCHME 138, RCHME 139, RCHME 140			
CONDITION		Good	

DESCRIPTION

- 1) CONSTRUCTIONAL MATERIAL  
Brick, Timber frame with asbestos sheet walls
- 2) ROOF MATERIALS AND STRUCTURE  
Asbestos over scissor truss
- 3) POWER SOURCE  
Steam heat, electricity
- 4) DIMENSIONS i) L 7.08m ii) W 4.76m iii) HT gable 3.4m
- 5) The store is one of a group of four, divided into a pair by a breeze block blast wall RCHME 140, each pair was heated by a fanhouse RCHME 138 and RCHME 139. The stores were served by a light railway that ran along the north side of the buildings with four sets of points to service each building.

The building is a single storey structure with a rectangular ground plan and gabled ends north and south. The south wall of the building and two thirds of the gable are brick laid in English bond. The northern section of the building is timber framed with sheet asbestos covering. The exterior of the building retains traces of wavy camouflage paint and extends into the building along the northern panel adjacent to the door. The main entrance into the building through which the railway bogies were pushed is at the northern side of the southern elevation. The entrance could be closed by a wooden slatted door hung on cast iron hinges. On the eastern elevation is a single wooden door hung with brass fittings. Set longitudinally into the floor within the northern section are two sleeper beams to which were attached the rails. Two wooden blocks act as stops at the east end. South of the railway was a red painted shoe board delimiting the dirty and clean area within the building. At the eastern end was a shoe box and hinged step where outside boots would be substituted for slip over leather shoes. Above the shoe box are two coat hangers.

Along the south wall of the building are eight storage lockers. The lockers are constructed from wood, each of which could house eight drying trays. The tray space measure 0.93m in length, 0.62m in width with a maximum depth of 0.10m. The lockers were closed by wooden doors hung with brass fittings, in the centre of each door was a T shaped leather strap. Below each locker was a removable wooden vent with two brass knobs. Each locker was heated by a warm air pipe entering from the base on the southern wall served by RCHME 139. There is a ceramic vent at the top of each locker on the exterior wall.

A wooden painted notice on the north wall reads 'CE STOVE No.7 LIMIT 2000 LBS BUILDING NUMBER 93G'.

Historic Artefacts - Complete locker and fittings, notices, shoe box and step, brass door furniture, first aid box.

*Historic Artefacts collected + archived Nov 94*

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER S47	OLD SERIES 93H	RCHME NUMBER	N.G.R. TL 37820 01710
NAME/FUNCTION C.E. Stove No.8		START DATE June 1940	END DATE 1945?
NO PHOTOGRAPHY AVAILABLE			
<p>CARTOGRAPHIC DEPICTION</p> <p>&gt; 1940 WASC 900/91A          1954 A - B.34          c1960 WASC 900/94 ; S47          c1963 WASC 900/97 ; S47          1972 WASC 900/102 ; S47          1972 WASC 900/104 ; S47          1976 WASC 900/113 ; S47</p>		<p>DOCUMENTARY REFERENCES</p> <p>1992 RARDE List - Tetryl Store</p>	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
<p>RELATIONSHIPS WITH OTHER MONUMENTS</p> <p>ASSOCIATED WITH: S47, S49, S49, RCHME 138, RCHME 139, RCHME 140</p>			
CONDITION		Good	

## DESCRIPTION

- 1) **CONSTRUCTIONAL MATERIAL**  
Brick, Timber frame with asbestos sheet walls
- 2) **ROOF MATERIALS AND STRUCTURE**  
Asbestos over scissor truss
- 3) **POWER SOURCE**  
Steam heat, electricity
- 4) **DIMENSIONS** i) L 7.07m ii) W 4.77m iii) HT gable 3.4m
- 5) The store is one of a group of four, divided into a pair by a breeze block blast wall RCHME 140, each pair was heated by a fanhouse RCHME 138 and RCHME 139. The stores were served by a light railway that ran along the north side of the buildings with four sets of points to service each building.

The building is a single storey structure with a rectangular ground plan and gabled ends north and south. The south wall of the building and two thirds of the gable are brick laid in English bond. The northern section of the building is timber framed with sheet asbestos covering. The exterior of the building retains traces of wavy camouflage paint and extends into the building along the northern panel adjacent to the door. The main entrance into the building through which the railway bogies were pushed is at the northern side of the southern elevation. The entrance could be closed by a wooden slatted door hung on cast iron hinges. On the eastern elevation is a single wooden door hung with brass fittings, on the exterior of the door is painted the date 6-40. Set longitudinally into the floor within the northern section are two sleeper beams to which were attached the rails. Two wooden blocks act as stops at the east end. South of the railway was a red painted shoe board delimiting the dirty and clean area within the building. At the eastern end was a shoe box and hinged step where outside boots would be substituted for slip over leather shoes. Above the shoe box are two coat hangers.

Along the south wall of the building are eight storage lockers. The lockers are constructed from wood, each of which could house eight drying trays. The tray space measure 0.93m in length, 0.62m in width with a maximum depth of 0.10m. The lockers were closed by wooden doors hung with brass fittings, in the centre of each door was a T shaped leather strap. Below each locker was a removable wooden vent with two brass knobs. Each locker was heated by a warm air pipe entering from the base on the southern wall served by RCHME 139. There is a ceramic vent at the top of each locker on the exterior wall.

A wooden painted notice on the north wall reads 'CE STOVE No.8 LIMIT 2000 LBS BUILDING NUMBER 93H'.

Historic Artefacts - Complete locker and fittings, notices, shoe box and step, brass door furniture, first aid box.

*Historic Artefacts collected + archived. Nov. 94*

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER S48	OLD SERIES 93I	RCHME NUMBER	N.G.R. TL 37833 01713
NAME/FUNCTION C.E. Stove No.9		START DATE June 1940	END DATE 1945?
NO PHOTOGRAPHY AVAILABLE			
<p>CARTOGRAPHIC DEPICTION</p> <p>&gt; 1940 WASC 900/91A 1954 A - B.34 c1960 WASC 900/94 ; S48 c1963 WASC 900/97 ; S48 1972 WASC 900/102 ; S48 1972 WASC 900/104 ; S48 1976 WASC 900/113 ; S48</p>		<p>DOCUMENTARY REFERENCES</p> <p>1992 RARDE List - Tetryl Store</p>	
<p>PHOTOGRAPHY HISTORIC</p>		<p>PHOTOGRAPHY RCHME</p> <p>1) 206/E/31 From north west 2) BB92/26118 Interior from north west</p>	
<p>RELATIONSHIPS WITH OTHER MONUMENTS</p> <p>ASSOCIATED WITH: S47, S49, S49, RCHME 138, RCHME 139, RCHME 140</p>			
CONDITION		Good	

#### DESCRIPTION

- 1) **CONSTRUCTIONAL MATERIAL**  
Brick, Timber frame with asbestos sheet walls
- 2) **ROOF MATERIALS AND STRUCTURE**  
Asbestos over scissor truss
- 3) **POWER SOURCE**  
Steam heat, electricity
- 4) **DIMENSIONS** i) L 7.07m ii) W 4.75m iii) HT gable 3.4m
- 5) The store is one of a group of four, divided into a pair by a breeze block blast wall RCHME 140, each pair was heated by a fanhouse RCHME 138 and RCHME 139. The stores were served by a light railway that ran along the north side of the buildings with four sets of points to service each building.

The building is a single storey structure with a rectangular ground plan and gabled ends north and south. The south wall of the building and two thirds of the gable are brick laid in English bond. The northern section of the building is timber framed with sheet asbestos covering. The exterior of the building retains traces of wavy camouflage paint and extends into the building along the northern panel adjacent to the door. The main entrance into the building through which the railway bogies were pushed is at the northern side of the southern elevation. The entrance could be closed by a wooden slatted door hung on cast iron hinges. On the eastern elevation is a single wooden door hung with brass fittings, dated on the exterior of the door is 'No.93I 6-40'. Set longitudinally into the floor within the northern section are two sleeper beams to which were attached the rails. Two wooden blocks act as stops at the east end. South of the railway was a red painted shoe board delimiting the dirty and clean area within the building. At the eastern end was a shoe box and hinged step where outside boots would be substituted for slip over leather shoes. Above the shoe box are two coat hangers. On the northern wall is a 1st aid box covered by a canvas flap.

Along the south wall of the building are eight storage lockers. The lockers are constructed from wood, each of which could house eight drying trays. The tray space measure 0.93m in length, 0.62m in width with a maximum depth of 0.10m. The lockers were closed by wooden doors hung with brass fittings, in the centre of each door was a T shaped leather strap. Below each locker was a removable wooden vent with two brass knobs. Each locker was heated by a warm air pipe entering from the base on the southern wall served by RCHME 138. There is a ceramic vent at the top of each locker on the exterior wall.

A wooden painted notice on the north wall reads 'CE STOVE No.9 LIMIT 2000 LBS BUILDING NUMBER 93I'.

Historic Artefacts - Complete locker and fittings, notices, shoe box and step, brass door furniture, first aid box.

*Historic Artefacts collected & archived Nov. 94*

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER S49	OLD SERIES 93J	RCHME NUMBER	N.G.R. TL 37845 01715
NAME/FUNCTION C.E. Stove No.10?		START DATE June 1940	END DATE 1945?
NO PHOTOGRAPHY AVAILABLE			
<p>CARTOGRAPHIC DEPICTION</p> <p>&gt; 1940 WASC 900/91A          1954 A - B.34          c1960 WASC 900/94 ; S49          c1963 WASC 900/97 ; S49          1972 WASC 900/102 ; S49          1972 WASC 900/104 ; S49          1976 WASC 900/113 ; S49</p>		<p>DOCUMENTARY REFERENCES</p> <p>1992 FARDE List - Tetryl Store</p>	
<p>PHOTOGRAPHY HISTORIC</p>		<p>PHOTOGRAPHY RCHME</p> <p>1) 206/E/30 From north west</p>	
<p>RELATIONSHIPS WITH OTHER MONUMENTS</p> <p>ASSOCIATED WITH: S47, S49, S49, RCHME 138, RCHME 139, RCHME 140, 102</p>			
<p>CONDITION      Good</p>			



**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER S50	OLD SERIES	RCHME NUMBER	N.G.R. TL 37616 02228
NAME/FUNCTION Control/Observation Room Detonator Store		START DATE 1972	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION  1972 WASC 900/102 ; S50 1972 WASC 900/104 ; S50 1976 WASC 900/113 ; S50		DOCUMENTARY REFERENCES  1972 ERDE List ; Control/Observation Store 1991 Mott McDonald survey 1992 FARDE List ; Store	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME  1) 206/O/8 From west	
RELATIONSHIPS WITH OTHER MONUMENTS  ASSOCIATED WITH: S34, S35, S36, S37, S38, Newton's Pool RCHME 276			
CONDITION      Good			
<p>DESCRIPTION</p> <p>1)      CONSTRUCTIONAL MATERIAL          Brick in English bond</p> <p>2)      ROOF MATERIALS AND STRUCTURE          Flat concrete slab</p> <p>3)      POWER SOURCE          Electricity</p> <p>4)      DIMENSIONS i) L 1.93m ii) W 1.92m iii) HT 2.4m</p> <p>5)      The building is single storeyed with a square plan. It has a single door on the north side. On the west side is an armoured observation window probably to observe platform S37 and on the south to observe Newton's Pool RCHME 276. Inside is the remains of electrical swith equipment and a gauge marked 0-2000lbs/sqin.</p> <p>         Historic artefacts - electrical switch gear, gauge and possibly other contents.</p>			

#### DESCRIPTION

- 1) CONSTRUCTIONAL MATERIAL  
Brick, Timber frame with asbestos sheet walls
- 2) ROOF MATERIALS AND STRUCTURE  
Asbestos over scissor truss
- 3) POWER SOURCE  
Steam heat, electricity
- 4) DIMENSIONS i) L 7.07m ii) W 4.77m iii) HT gable 3.4m
- 5) The store is one of a group of four, divided into a pair by a breeze block blast wall RCHME 140, each pair was heated by a fanhouse RCHME 138 and RCHME 139. The stores were served by a light railway that ran along the north side of the buildings with four sets of points to service each building.

The building is a single storey structure with a rectangular ground plan and gabled ends north and south. The south wall of the building and two thirds of the gable are brick laid in English bond. The northern section of the building is timber framed with sheet asbestos covering. The exterior of the building retains traces of wavy camouflage paint and extends into the building along the northern panel adjacent to the door. The main entrance into the building through which the railway bogies were pushed is at the northern side of the southern elevation. The entrance could be closed by a wooden slatted door hung on cast iron hinges. On the eastern elevation is a single wooden door hung with brass fittings, on the exterior of the door is painted '93? 6-40'. Set longitudinally into the floor within the northern section are two sleeper beams to which were attached the rails. Two wooden blocks act as stops at the east end. South of the railway was a red painted shoe board delimiting the dirty and clean area within the building.

Along the south wall of the building are eight storage lockers. The lockers are constructed from wood, each of which could house eight drying trays. The tray space measure 0.93m in length, 0.62m in width with a maximum depth of 0.10m. The lockers were closed by wooden doors hung with brass fittings, in the centre of each door was a T shaped leather strap. Below each locker was a removable wooden vent with two brass knobs. Each locker was heated by a warm air pipe entering from the base on the southern wall served by RCHME 139. There is a ceramic vent at the top of each locker on the exterior wall.

The building has latterly been used as a garden shed for the Water wardens cottage, this has conversion has involved the insertion of two windows in the northern elevation and some damage to the explosives lockers.

Historic Artefacts - Complete locker and fittings, notices, shoe box and step, brass door furniture, first aid box.

*Historic Artefacts Collected & archived Nov. 94*

## THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER 89	OLD SERIES	RCHME NUMBER	N.G.R. TL 37677 01938
NAME/FUNCTION Gunpowder Drying Stove Cordite Tray Stove No.1 Fuse powder magazine C.E. Magazine no.4	START DATE 1879 1898? by 1923 1940?	END DATE 1898? by 1923 1940?	
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES 1908 RGPF Ledger WASC 1509 + WASC 1764; Cordite tray Stove built 1879 p9	
PHOTOGRAPHY HISTORIC  1) WASC 499 Photograph 9, damage caused by explosion of Mixing house 63 18-Jan-1940	PHOTOGRAPHY RCHME		
RELATIONSHIPS WITH OTHER MONUMENTS  ASSOCIATED WITH: 88, 87, 90, 91			
CONDITION      Demolished brick foundations remain			
DESCRIPTION 1)      CONSTRUCTIONAL MATERIAL Brick  2)      ROOF MATERIALS AND STRUCTURE -  3)      POWER SOURCE Formerly steam heat from boiler house 90  4)      DIMENSIONS i) L 11.6m ii) W 9.8m  5)      The building was brick built with a gabled roof, it was heated by steam from the boiler within traverse. The building was probably demolished during the second world war perhaps prompted by damage it suffered in an accidental explosion 18-Jan-1940. The outline of the building may be traced as brick foundations with three small rooms to the north east. The line of the canal that formerly surrounded this building and 90 and 91 may be traced as slight hollow to the north east of this building. The opposite side of the canal may in part be traced as a brick foundation that supported a covered porch.			

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER S90	OLD SERIES 90	RCHME NUMBER	N.G.R. TL 37670 01927
---------------	------------------	--------------	--------------------------

NAME/FUNCTION Gunpowder Stove Boiler House Fanhouse for Cordite Stoves 8+9 Firing Point	START DATE 1879 1898? 195?	END DATE 1898? 195?
--------------------------------------------------------------------------------------------------	-------------------------------------	---------------------------

NO PHOTOGRAPHY  
AVAILABLE

<p><b>CARTOGRAPHIC DEPICTION</b></p> <p>1865 WASC 900/38 + SUPP5 975 ; Steam Stove No.3          1865 WASC 900/41A          1865 WASC 900/42          1897 WASC 900/53C          1910 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 (disused)          &gt; 1940 WASC 900/91A          1954 A - B.34 ; S90          c1960 WASC 900/94 ; S90          c1963 WASC 900/97 ; S90          1972 WASC 900/102 ; S90          1972 WASC 900/104 ; S90          1976 WASC 900/113 ; S90</p>	<p><b>DOCUMENTARY REFERENCES</b></p> <p>1908 RGPF Ledger WASC 1509 + WASC 1764 ; Engine and Fan House built 1883-4 p2          c1925 RGPF Ledger WASC 1680 ; Engine and Fan House          c1945 RGPF Ledger WASC 1508 ; Engine and Fan House          1992 RARDE List ; Control Room</p>
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

<p><b>PHOTOGRAPHY HISTORIC</b></p> <p>PRO Supply 5/860 11,12 1879 Gunpowder steam stove No.3 from north</p>	<p><b>PHOTOGRAPHY RCHME</b></p> <p>1)206/H/From East 206/H/32 From South</p> <p>2) BB92/26109 From South BB92/26110 From South West BB92/26111 From South East</p>
-------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

**RELATIONSHIPS WITH OTHER MONUMENTS**

ASSOCIATED WITH: 87, 88, 89, 91, S29, S29a, S90a ABUTTED BY: S30

**CONDITION** Fair

DESCRIPTION

- 1) CONSTRUCTIONAL MATERIAL  
Brick, concrete
- 2) ROOF MATERIALS AND STRUCTURE  
Brick vault, originally covered by slate see Supply 5/860 12
- 3) POWER SOURCE  
Formerly steam
- 4) DIMENSIONS i) L 16.15m ii) W 11.3m iii) HT estimate 6m
- 5) The boiler house is oval in shape it it faced with brick laid in English bond. The interior of the boiler house has a brick vault with a central chimney veny. A blocked doorway is visible at the northern end. The exterior of this door lies under the traverse to S30 created around 1940.

The interior of the traverse has subsequently been used as firing point. The interior was partly lined in armoured plates, those that remain are pitted and scarred as a result of the explosions. The experiments conducted within the structure have resulted in the collapse of the inner lip of the chimney and part of the eastern exterior cladding of the traverse. The experiments were controlled from S90a at the south east end of the traverse.

The building date of 1883-4 given in the 1908 ledger is thought to erroneous. The two gunpowder drying rooms [91 & 93] and the two small buildings [87 & 88] to the north are dated 1879 in the 1908 ledger WASC 1509.

*Historic Portable Artifacts Collected + archived Nov. 94.*

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER S90a	OLD SERIES	RCHME NUMBER	N.G.R. TL 37680 01919
NAME/FUNCTION Control room		START DATE 195?	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
c1960	WASC 900/94		
c1963	WASC 900/97		
1972	WASC 900/102		
1972	WASC 900/104		
1976	WASC 900/113		
PHOTOGRAPHY HISTORIC	PHOTOGRAPHY RCHME		
	1) 206/H/30 From south 206/H/31 From south		
	2)BB92/26111 From South East		
RELATIONSHIPS WITH OTHER MONUMENTS			
ASSOCIATED WITH: S90			
CONDITION	Fair		
DESCRIPTION			
1)	CONSTRUCTIONAL MATERIAL Breeze block and armour plate		
2)	ROOF MATERIALS AND STRUCTURE Was a single gable		
3)	POWER SOURCE Electricity		
4)	DIMENSIONS i) L 3.6m ii) W 2.2m iii) HT 3.25m		
5)	The building is a single storey with a rectangular ground plan. The northwest elevation is protected by armour plates bolted to it. These are heavily scarred from explosions within S90. The southeast elevation is now open but was formerly covered by a timber framed side.		

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER	OLD SERIES 91	RCHME NUMBER	N.G.R. TL 37660 01915
NAME/FUNCTION Gunpowder Stove Cordite Tray Stove	START DATE 1879 1898?	END DATE 1898?	
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION	DOCUMENTARY REFERENCES 1908 RGPF Ledger WASC 1509 + WASC 1764; Cordite Tray Stove built 1879 p9		
PHOTOGRAPHY HISTORIC	PHOTOGRAPHY RCHME		
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: 87, 88 ABUTTS: 90 UNDERLIES: S30 <i>89</i>			
CONDITION	Demolished		
DESCRIPTION 1) CONSTRUCTIONAL MATERIAL Brick 2) ROOF MATERIALS AND STRUCTURE - 3) POWER SOURCE Formerly steam heat from 90 4) DIMENSIONS i) L 13m ii) W 3.5m + 5) This remains of this building survives incorporated into the traverse of S30. The rear wall of this traverse has four steam pipes at its base formerly part of 91. Brick foundations to the south and north east of S30 represent other fragments of this building. The building was probably demolished after damage it sustained in an accidental explosion on 18-Jan-1940. It was replaced by S30.			

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

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



**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

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

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER	OLD SERIES 104a	RCHME NUMBER	N.G.R. TL 37747 01700
NAME/FUNCTION Shifting Room		START DATE	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION  1923 WASC 900/84; 104a C.E. Shifting Room		DOCUMENTARY REFERENCES	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS  ASSOCIATED WITH: RCHME 141			
CONDITION      Demolished			
<p>DESCRIPTION</p> <p>1)      CONSTRUCTIONAL MATERIAL</p> <p>2)      ROOF MATERIALS AND STRUCTURE</p> <p>3)      POWER SOURCE          Steam heat, electricity</p> <p>4)      DIMENSIONS i) L 12.3m    ii) W 9.8m    iii) HT</p> <p>5)      The building has been demolished but may be traced as a concrete floor slab, with an annex to the east. The building was formerly timber framed resting on a low brick sill wall, fragments of flat asbestos sheet walls and corrugated roofing asbestos were found in the area.</p> <p>         On the opposite side of the track to 104a is a small concrete floor slab 5.4m x 3.55m.</p>			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
NUMBER 102	OLD SERIES	RCHME NUMBER	N.G.R. TL 3787 0171
NAME/FUNCTION Water Wardens Cottage		START DATE 1878	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION 1865 WASC 900/41A 1865 WASC 900/42 1897 WASC 900/53C 1910 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; 102 Water Wardens House > 1940 WASC 900/91A 1954 A - B.34 ; S90 c1960 WASC 900/94 ; S90 c1963 WASC 900/97 ; S90 1972 WASC 900/102 ; S90 1972 WASC 900/104 ; S90 1976 WASC 900/113		DOCUMENTARY REFERENCES  WASC 1509 Ledger 1908; Water Wardens House built 1879	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME  1) 206/E/29  2) BB92/26116 From southwest	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH:			
CONDITION      FAIR:			
DESCRIPTION 1)      CONSTRUCTIONAL MATERIAL Brick  2)      ROOF MATERIALS AND STRUCTURE  3)      POWER SOURCE  4)      DIMENSIONS i) L      ii) W      iii) HT  5)			

*Destroyed partially by fire in 1995.*

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
NUMBER U6	OLD SERIES	RCHME NUMBER	N.G.R. TL 37591 01817
NAME/FUNCTION Building		START DATE 195?	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
c1960	WASC 900/94 ; U6	1991	Mott McDonald survey
c1963	WASC 900/97	1992	RARDE List ; Small Storage Hut
1972	WASC 900/102		
1972	WASC 900/104		
1976	WASC 900/113		
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME 1)206/J/1 From West 206/H/36 From South West	
RELATIONSHIPS WITH OTHER MONUMENTS			
ASSOCIATED WITH: 95a			
CONDITION Fair			
DESCRIPTION			
1)	CONSTRUCTIONAL MATERIAL Brick and timber frame with abestos sheet over.		
2)	ROOF MATERIALS AND STRUCTURE Corrugated abestos		
3)	POWER SOURCE Electricity		
4)	DIMENSIONS i) L 7.3m ii) W 5.5m iii) HT 2.9m		
5)	The southern portion of this building has been demolished leaving a low sill wall with a cement and slate damp proof course. The northern wall of this building is of brick strengthened by old railway track, the wall has been scarred by shrapnel like pitting. To the north of this wall is a leanto of abestos sheeting over a timber frame.		

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER U8	OLD SERIES	RCHME NUMBER	N.G.R. TL 37682 01791
--------------	------------	--------------	--------------------------

NAME/FUNCTION Bunker	START DATE 1940?	END DATE
-------------------------	---------------------	----------

NO PHOTOGRAPHY  
AVAILABLE

<p>CARTOGRAPHIC DEPICTION</p> <p>c1960 WASC 900/94 ; U8  c1963 WASC 900/97  1972 WASC 900/102  1972 WASC 900/104  1976 WASC 900/113</p>	<p>DOCUMENTARY REFERENCES</p> <p>1991 Mott McDonald survey  1992 RARDE List ; Small Brick Shelter</p>
---------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------

<p>PHOTOGRAPHY HISTORIC</p>	<p>PHOTOGRAPHY RCHME</p> <p>1)206/E/34 From East</p>
---------------------------------	----------------------------------------------------------

RELATIONSHIPS WITH OTHER MONUMENTS

ASSOCIATED WITH:

CONDITION Fair

DESCRIPTION

- 1) CONSTRUCTIONAL MATERIAL  
Breeze block
- 2) ROOF MATERIALS AND STRUCTURE  
Flat concrete slab
- 3) POWER SOURCE  
None
- 4) DIMENSIONS i) L 2.96m ii) W 2.79m iii) HT 2.2m
- 5) The Bunker is a single storey rectangular structure with a staggered doorway on its eastern side. It is lit by three slit windows.

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER U10	OLD SERIES	RCHME NUMBER	N.G.R. TL 37766 01730
NAME/FUNCTION Tetryl Store		START DATE 1940	END DATE 1945
NO PHOTOGRAPHY AVAILABLE			
<p>CARTOGRAPHIC DEPICTION</p> <p>&gt; 1940 WASC 900/91A 1954 A - B.34 c1960 WASC 900/94 ; U10 c1963 WASC 900/97 1972 WASC 900/102 1972 WASC 900/104 1976 WASC 900/113</p>		<p>DOCUMENTARY REFERENCES</p> <p>1991 Mott McDonald survey 1992 RARDE List ; Tetryl Building, two blast walls remain</p>	
<p>PHOTOGRAPHY HISTORIC</p>		<p>PHOTOGRAPHY RCHME 1) 206/R/1 Floor slab from South</p>	
<p>RELATIONSHIPS WITH OTHER MONUMENTS</p> <p>ASSOCIATED WITH: RCHM140, RCHM 141, RCHM 142</p>			
<p>CONDITION Fair</p>			
<p>DESCRIPTION</p> <p>1) CONSTRUCTIONAL MATERIAL Timber framed wall covered by abestos sheet</p> <p>2) ROOF MATERIALS AND STRUCTURE Not known</p> <p>3) POWER SOURCE Steam heating</p> <p>4) DIMENSIONS i) L 6.2 ii) W 5.4</p> <p>5) The building has been fired. A concrete slab remains, on the slab the outline of a building 5.8m x 4.6 may be discerned with two door on the southern side.</p>			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
NUMBER	OLD SERIES	RCHME NUMBER 115	N.G.R. TL 37645 01940
NAME/FUNCTION Traverse		START DATE 1940?	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME  1)206/H/34 Traverse 206/T/17 From South	
RELATIONSHIPS WITH OTHER MONUMENTS  ASSOCIATED WITH: S29, S29a, S30			
CONDITION      Good			
DESCRIPTION 1)      CONSTRUCTIONAL MATERIAL Breeze block and earthwork  4)      DIMENSIONS i) L 47.1m ii) W 10.5m iii) HT 2.5m  5)      The traverse consists of a breeze block revetting wall running parallel to the canal with an earthen bank to the rear (north). the wall was constructed to screen the entrance to S30. The front of the wall carried a line of steam pipes.			

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER	OLD SERIES	RCHME NUMBER 138	N.G.R. TL 37840 01716
--------	------------	---------------------	--------------------------

NAME/FUNCTION Fan House	START DATE 1940	END DATE 1945
----------------------------	--------------------	------------------

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 1972 WASC 900/102 1972 WASC 900/104 1976 WASC 900/113</p>	<p>DOCUMENTARY REFERENCES</p>
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------

<p>PHOTOGRAPHY HISTORIC</p>	<p>PHOTOGRAPHY RCHME 1)206/E/28 From South West</p>
---------------------------------	-------------------------------------------------------------

RELATIONSHIPS WITH OTHER MONUMENTS

ASSOCIATED WITH: S48,S49

CONDITION Fair

DESCRIPTION

- 1) CONSTRUCTIONAL MATERIAL  
Brick
- 2) ROOF MATERIALS AND STRUCTURE  
Corrugated Asbestos in a single slope with a gable
- 3) POWER SOURCE  
Electricity & Steam vent
- 4) DIMENSIONS i) L 3.28 ii) W 2.67 iii) HT 2.47
- 5) The Fanhouse is a single storey building lying in the centre of and to the South of S48 and S49. It has a single door on the South side and a hole 0.3m square through the East and West walls (through which the warm air pipes passed). The North wall has a vent protected by a wooden louvre. On the floor of the building are two concrete machine bases with vertical mounting bolts, fixed to the wall is a wooden phone box.

*Historic Artefacts Collected + Archived Nov. 94*



**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER	OLD SERIES	RCHME NUMBER 139	N.G.R. TL 37816 01702
--------	------------	---------------------	--------------------------

NAME/FUNCTION Fan House	START DATE 1940	END DATE 1945
----------------------------	--------------------	------------------

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 1972 WASC 900/102 1972 WASC 900/104 1976 WASC 900/113</p>	<p>DOCUMENTARY REFERENCES</p>
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------

<p>PHOTOGRAPHY HISTORIC</p>	<p>PHOTOGRAPHY RCHME 1)206/E/27 From South West</p>
---------------------------------	-------------------------------------------------------------

RELATIONSHIPS WITH OTHER MONUMENTS

ASSOCIATED WITH: S46, S47

CONDITION Fair

DESCRIPTION

- 1) CONSTRUCTIONAL MATERIAL  
Brick
- 2) ROOF MATERIALS AND STRUCTURE  
Corrugated Asbestos
- 3) POWER SOURCE  
Steam & Electricity
- 4) DIMENSIONS i) L 3.28 ii) W 2.67 iii) HT 2.47
- 5) The fanhouse is a single storey building lying in the centre of and to the South of S46 and S47. It has a single door on the South side. The East and the West walls are pierced by a square hole 0.3m by 0.3m (through which the warm air pipes passed?). The North wall has a vent protected by a wooden louver. On the floor of the building are two concrete machine bases with vertical mounting bolts.

*Historic Artefacts collected & archived Nov. 94*

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER	OLD SERIES	RCHME NUMBER 141	N.G.R. TL 37755 01705 37780 01771
NAME/FUNCTION Steam Pipe Stanchion	START DATE	END DATE	
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION	DOCUMENTARY REFERENCES		
PHOTOGRAPHY HISTORIC	PHOTOGRAPHY RCHME 1)206/E/25 Steam Pipe stanchion		
RELATIONSHIPS WITH OTHER MONUMENTS  Associated with: 104a, U10			
CONDITION			
DESCRIPTION 1) CONSTRUCTIONAL MATERIAL Concrete  3) POWER SOURCE Steam  4) DIMENSIONS iii) HT 1.40  5) Concrete post with iron loop hangers.			

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER	OLD SERIES	RCHME NUMBER 146	N.G.R. TL 37688 01729 TL 36688 01789
--------	------------	---------------------	--------------------------------------------

NAME/FUNCTION Pipeline	START DATE	END DATE
---------------------------	------------	----------

NO PHOTOGRAPHY  
AVAILABLE

CARTOGRAPHIC DEPICTION	DOCUMENTARY REFERENCES
------------------------	------------------------

PHOTOGRAPHY HISTORIC	PHOTOGRAPHY RCHME
-------------------------	----------------------

RELATIONSHIPS WITH OTHER MONUMENTS  
ASSOCIATED WITH:

CONDITION      Poor

DESCRIPTION

- 1)      CONSTRUCTIONAL MATERIAL  
        Timber posts with iron pipe
  
- 3)      POWER SOURCE  
        Steam heat
  
- 4)      DIMENSIONS i) L 60m    ii) W          iii) HT .
  
- 5)      60m section of former steam pipe supported on tarred timber posts. The posts are 1.42 in height and the bore of the pipe is 47mm.

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
NUMBER	OLD SERIES	RCHME NUMBER 147	N.G.R. TL 3770 0174
NAME/FUNCTION Dump		START DATE	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS  ASSOCIATED WITH:			
CONDITION      Poor			
DESCRIPTION			
4)	DIMENSIONS i) L      ii) W      iii) HT		
5)	Dump of metal drums. The drums were im in diameter with aheight of 0.93m. They were originally sealed at both ends and the body of the drum was strengthened by iron hoops.		

*Removed during decontamination in 1993/94.*

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
NUMBER	OLD SERIES	RCHME NUMBER 148	N.G.R. TL 37690 01752
NAME/FUNCTION Earth Closet		START DATE 194?	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME  1)206/E/35 From West	
RELATIONSHIPS WITH OTHER MONUMENTS  Associated with: RCHME 119			
CONDITION <i>Unstable</i>			
DESCRIPTION 1) CONSTRUCTIONAL MATERIAL Timber planks  2) ROOF MATERIALS AND STRUCTURE Felt over Timber boards  4) DIMENSIONS i) L 1.46 ii) W 1.1 iii) HT 2.0  5) Toilet with Bucket and single door with a sign which reads "C.E...ON....DIRTY"			

*Collapsed Feb 1995. Rotten base to timbers. No wooden uprights for foundations.*

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER	OLD SERIES	RCHME NUMBER 149	N.G.R. TL 37686 01750
NAME/FUNCTION Earth Closet		START DATE 1940?	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: RCHME 148			
CONDITION      Fair			
<p>DESCRIPTION</p> <p>1)      CONSTRUCTIONAL MATERIAL          Brick</p> <p>2)      ROOF MATERIALS AND STRUCTURE          Half, roof felt over boards</p> <p>3)      POWER SOURCE          None</p> <p>4)      DIMENSIONS' i) L 3.9m    ii) W 1.84m    iii) HT 2.6m</p> <p>5)      Small single storey structure with urinal to the west and two covered cubicles with buckets to east. A sign on the exterior reads 'Clean'.</p>			

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER	OLD SERIES	RCHME NUMBER 150	N.G.R. TL 37655 01810
NAME/FUNCTION Fanhouse		START DATE 1918?	END DATE 1945?
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: S39, S40			
CONDITION      Demolished			
<p>DESCRIPTION</p> <p>1)      CONSTRUCTIONAL MATERIAL</p> <p>2)      ROOF MATERIALS AND STRUCTURE</p> <p>3)      POWER SOURCE          Steam heat, electricity?</p> <p>4)      DIMENSIONS i) L      ii) W      iii) HT</p> <p>5)      This building has been demolished, a concrete floor slab remains. The fanhouse was formerly placed between the Tetryl Cleaning Houses 1 &amp; 2 [S39 &amp; S40].</p>			

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER	OLD SERIES	RCHME NUMBER 152	N.G.R. TL 37713 01879 TL 37798 01717
NAME/FUNCTION Overhead Powerline		START DATE c1940	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION	DOCUMENTARY REFERENCES		
PHOTOGRAPHY HISTORIC	PHOTOGRAPHY RCHME		
RELATIONSHIPS WITH OTHER MONUMENTS  ASSOCIATED WITH: 74a, 75a, 76a, 92a, 92b, 93c, 93d, 96b, RCHM 153			
CONDITION	Poor		
DESCRIPTION  5) Line of 'telegraph' poles with 1940s type insulators. Parallel to RCHM 153			



**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER	OLD SERIES	RCHME NUMBER 153	N.G.R. TL 37784 01773 TL 37805 01724
NAME/FUNCTION Pipeline	START DATE		END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS  ASSOCIATED WITH: RCHM 152			
CONDITION      Poor			
DESCRIPTION  5)      Row of concrete stanchions with iron hoops, formerly carried a steam pipe. Parallel to RCHM 152.			

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER	OLD SERIES	RCHME NUMBER 154	N.G.R.
NAME/FUNCTION Pipeline		START DATE	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION	DOCUMENTARY REFERENCES		
PHOTOGRAPHY HISTORIC	PHOTOGRAPHY RCHME		
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH:			
CONDITION	Poor		
DESCRIPTION  5) Row of concrete posts with iron hoops and tarred timber posts, carried pipe, bore 41mm.			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
NUMBER	OLD SERIES	RCHME NUMBER 206	N.G.R. TL 37670 01979 TL 37635 02017
NAME/FUNCTION Steam Pipeline		START DATE 1940?	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: RCHME 102, RCHME 202, RCHME 208, S28			
CONDITION Poor			
DESCRIPTION			
<p>3) POWER SOURCE Steam</p> <p>5) Line of concrete stanchions that formerly carried a steam pipe line. This line forms a branch from the main feeder pipe RCHME 102 along the north side of the canal to S28, it crosses the canal over bridge RCHME 202 to guncotton stove S28 served by Fan House RCHME 208.</p>			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
NUMBER	OLD SERIES	RCHME NUMBER 207	N.G.R. TL 37655 01997
NAME/FUNCTION Blast Wall		START DATE 1940?	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: S28			
CONDITION      Good			
DESCRIPTION 1)      CONSTRUCTIONAL MATERIAL Cast concrete  4)      DIMENSIONS i) L 10.3m ii) W 1.5m iii) HT 3.4m  5)      Blast wall east of S28, formerly had timber walkway attached to to its canal side.			

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER	OLD SERIES	RCHME NUMBER 208	N.G.R. TL 37632 02017
NAME/FUNCTION Fan House and Heater Base		START DATE 1940?	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES 1944 Record Drawing O 14 B 01 ; Fan House and Heater Base.	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: RCHME 206, S28			
CONDITION Poor			
DESCRIPTION 3) POWER SOURCE Steam heat and ?electricity 5) This feature consists of a number of concrete blocks to the north of S28 representing the remains of a Fan House and Heater Base. There are two concrete slabs 2.9m x 2.9m and 3.9m x 1.2m are with in the group are smaller concrete blocks. Into the blocks are set vertical mounting bolts for securing the superstructure and machinery.			

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER	OLD SERIES	RCHME NUMBER 211	N.G.R. TL 37590 02089 TL 37600 02091
NAME/FUNCTION Steam Pipeline		START DATE 1940?	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION	DOCUMENTARY REFERENCES		
PHOTOGRAPHY HISTORIC	PHOTOGRAPHY RCHME		
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: E16, RCHM 209			
CONDITION	Poor		
DESCRIPTION 3) POWER SOURCE Steam 5) Stanchions of steam pipe line, RCHME 211 forms a branch from pipe RCHME 209 to E16.			

**THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY**

NUMBER	OLD SERIES	RCHME NUMBER 275	N.G.R. TL37611 02097
--------	------------	---------------------	-------------------------

NAME/FUNCTION Dusting House No.4	START DATE 1879?	END DATE 1900?
-------------------------------------	---------------------	-------------------

NO PHOTOGRAPHY  
AVAILABLE

<p><b>CARTOGRAPHIC DEPICTION</b></p> <p>1865 - WASC 900/38 + SUPP5 975 ; Dusting House No.4          1865 - WASC 900/41A ; Dusting House No.4          1865 - WASC 900/42 ; Dusting House No.4          1897 - WASC 900/53C</p>	<p><b>DOCUMENTARY REFERENCES</b></p> <p>1857 Maj Frazer Baddeley R.A. Pamphlet on The          Manufacture of Gunpowder Waltham Abbey p17          1870 Capt F.M.Smith R.A. Handbook of the Manufacture          &amp; Proof of Gunpowder as carried on at the RGPF          Waltham Abbey p69-71          1888 Maj Gen W.H.Wardell R.A.Handbook of Gunpowder          &amp; Guncotton 1888 p52 point No6          1908 Ledger</p>
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

<p><b>PHOTOGRAPHY HISTORIC</b></p> <p>PRO Supply 5/860 14 1879</p>	<p><b>PHOTOGRAPHY RCHME</b></p> <p><i>Site Photog.</i></p>
--------------------------------------------------------------------	------------------------------------------------------------

**RELATIONSHIPS WITH OTHER MONUMENTS**

ASSOCIATED WITH: RCHME 289

**CONDITION**

**DESCRIPTION**

- 1) CONSTRUCTIONAL MATERIAL
- 2) ROOF MATERIALS AND STRUCTURE
- 3) POWER SOURCE  
Water
- 4) DIMENSIONS i) L    ii) W    iii) HT
- 5) The Dusting House lay to either side of a central brick lined wheel pit. The wheel pit survives although filled and the position of the tumble bay on the eastern side is sealed by corrugated iron. Slight subrectangular earthwork hollows either side of the wheel pit probably mark the position of the building.

*Surface vegetation scrape proved that the central wheelpit was concreted over at some point and has collapsed since. Large blocks of hardcore fall out to the west in RCHME 222.*

*Surface vegetation scrape proved that the central wheelpit was concreted over at some point and has collapsed since. Large blocks of hardcore fall out to the west in RCHME 222.*

## THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER	OLD SERIES	RCHME NUMBER 304	N.G.R. TL 37663 02242
--------	------------	---------------------	--------------------------

NAME/FUNCTION The Old Turnpike House Turnpike and Chequer Inn Mr Newtons House	START DATE 18th Century	END DATE  By 1827
-----------------------------------------------------------------------------------------	----------------------------	-------------------------

NO PHOTOGRAPHY  
AVAILABLE

### CARTOGRAPHIC DEPICTION

1783 WASC 900/1, PRO MR 593 The Old Turnpike House  
1801 WASC 900/1a, PRO MR 580(2) Old Turnpike House  
1806 WASC PRO MR 580 4 Master Workers House

### DOCUMENTARY REFERENCES

1807 WO55/2351;96 Master Workers House

1887 Winters.W. Centenary Memorial of The Royal Gunpowder Factory, Waltham Abbey p148

1973 Cherry.J. "Post Medieval Britain in 1972" p104 Post Medieval Archaeology 7. Excavation by K.N.Bascombe and J.T.A.Burton.

PHOTOGRAPHY  
HISTORIC

PHOTOGRAPHY  
RCHME

### RELATIONSHIPS WITH OTHER MONUMENTS

ASSOCIATED WITH: Newtons Pool RCHME 276

CONDITION      Demolished

### DESCRIPTION

- 5) Building named as the Old Turnpike House is shown in 1783. The building has been identified as the Turnpike and Chequer Inn,(see Cherry J) last licensed in 1795. A period of domestic occupation may have followed as an old workman writing in 1887 (see Winters) describes Newtons house at the pool to the right of Edmonsey. Excavations in 1971 during bridge building operations located a brick lined pit with a half-penny of 1806 in its fill. No surface remains were found, the building may lie underneath the modern road to the south of the modern bridge southeast of Newtons Pool RCHME 276.