

THE ROYAL GUNPOWDER FACTORY

WALTHAM ABBEY

Millhead Stream



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THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER	OLD SERIES 97	RCHME NUMBER	N.G.R. TL 37414 01761
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NAME/FUNCTION Corning House No.4 Granulating House No.2 Breaking Down House No.1 and Pebble Cutting House Tetryl Still and Purification House	START DATE pre 1821 1847 193?	END DATE 1865? 1843. 1945?
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NO PHOTOGRAPHY AVAILABLE

<p>CARTOGRAPHIC DEPICTION</p> <p>1827 WASC 900/04 + MPH 271 ; Corning House (No.2)</p> <p>1830 WO55 2694 ; 145</p> <p>1830 WASC 900/05 ; Corning House No.4</p> <p>c1835 WASC 900/07 ; Corning House No.4</p> <p>1844 OS Sheet 72 Brentwood ; Corning House</p> <p>1865 WASC 900/38 + SUPP5 975 ; Granulating House No.2</p> <p>1865 WASC 900/42 ; No.2 Granulating House</p> <p>1897 WASC 900/53C</p> <p>c1910 WASC 900/65 ; 97</p> <p>c1910 WASC 900/79 ; 97</p> <p>1917 WASC 900/70 ; 97</p> <p>1917 WASC 900/72 ; 97</p> <p>1919 WASC 900/74 ; 97</p> <p>c1920 WASC 900/80 ; 97</p> <p>1923 WASC 900/84 ; 97</p> <p>1932 WASC 900/87 ; 97 ; 97</p> <p>> 1940 WASC 900/91A ; 97</p> <p>1940 Proc Court Inquiry 20-Apr-1940 appendix 1 ; 97,98 CE Still and Purification House</p>	<p>DOCUMENTARY REFERENCES</p> <p>1830 Statement of Property WO55 2351 ; Corning House</p> <p>1841 Statement of Property WO55 2856 ; Corning House</p> <p>1851 Statement of Property WO55 3027</p> <p>1908 RGPF Ledger WASC 1509 + WASC 1764 ; Granulating and Blending House built pre 1860 p10</p> <p>c1925 RGPF Ledger WASC 1680 ; Granulating and Blending House</p> <p>c1945 RGPF Ledger WASC 1508 ; Granulating and Blending House (demolished)</p> <p>1843 Explosion. Winter 1887 Smith 1870 p57.</p> <p>106 2000 5/10/04 now from market 1845.</p>
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<p>PHOTOGRAPHY HISTORIC</p> <p>PRO Supply 5/860 20,21 Late nineteenth century PRO Supply 5/860 22, 27-31 Explosion 22-aug-1890 Explosion completely destroyed building except traverses</p>	<p>PHOTOGRAPHY RCHME</p>
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RELATIONSHIPS WITH OTHER MONUMENTS
ASSOCIATED WITH: 98

CONDITION Demolished

DESCRIPTION

- 5) It is unclear to what extent the building's foundations were removed when the Horsemill Stream was widened. The building may survive as a buried feature.

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THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
NUMBER	OLD SERIES 98	RCHME NUMBER	N.G.R. TL 37411 01739
NAME/FUNCTION part of Corning House (No.2/No.4) Shoe Room		START DATE pre 1821	END DATE 1945?
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION 1827 WASC 900/04 + MPHH 271 ; part of No.2 Corning House 1830 WO55 2694 ; 143 1830 WASC 900/05 ; building connected to No.4 Corning House c1835 WASC 900/07 ; building connected to No.4 Corning House 1865 WASC 900/38 + SUPP5 975 ; Shoe House 1865 WASC 900/42 ; Shoe House 1897 WASC 900/53C c1910 WASC 900/65 ; 98 c1910 WASC 900/79 ; 98 1917 WASC 900/70 ; 98 1917 WASC 900/72 ; 98 1919 WASC 900/74 ; 98 c1920 WASC 900/80 ; 98 1923 WASC 900/84 ; 98 1932 WASC 900/87 ; 98 >1940 WASC 900/91A ; 98		DOCUMENTARY REFERENCES 1830 Statement of Property WO55 2351 ; part of Corning House 1841 Statement of Property WO55 2856 ; part of Corning House 1851 Statement of Property WO55 3027 1908 RGPF Ledger WASC 1509 + WASC 1764 ; Shoe Room built pre 1860 p10 c1925 RGPF Ledger WASC 1680 ; Shoe Room c1945 RGPF Ledger WASC 1508 ; Shoe Room (demolished)	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: Corning house 97 →			
CONDITION Demolished			
DESCRIPTION) 5) The building may survive as a buried feature beneath the eastern bank of the Horsemill Stream.			

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THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
NUMBER	OLD SERIES 110	RCHME NUMBER	N.G.R. TL 37404 01654
NAME/FUNCTION Boat House		START DATE	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION 1897 O.S. Essex XLIX.14 c1900 WASC 900/79; Boathouse 1923 WASC 900/84; 110 Boathouse		DOCUMENTARY REFERENCES 1908 RGPF Ledger WASC 1509 + WASC 1764; Boat House built 1857-8 p4	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS			
ASSOCIATED WITH: 111			
CONDITION Demolished			
DESCRIPTION			
1) CONSTRUCTIONAL MATERIAL			
2) ROOF MATERIALS AND STRUCTURE			
3) POWER SOURCE			
4) DIMENSIONS i) L ii) W iii) HT			
5) Its remains were probably destroyed when Horsemill Stream was canalised in the early 1970s.			

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THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
NUMBER	OLD SERIES 111	RCHME NUMBER	N.G.R. TL 37004 01642
NAME/FUNCTION Magazine Tetryl Store <i>Font</i>		START DATE 1873 <i>Font</i> 193?	END DATE 193? 1945
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION 1886 WASC 900/38 1897 O.S. Essex XLIX.14 c1900 WASC 900/79; Magazine 1923 WASC 900/84; 111 Magazine 1940 Proc Court Inquiry 20-Apr-1940 appendix I ; CE Store		DOCUMENTARY REFERENCES 1908 WASC 1509; Magazine built 1873 p11	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: 110 →			
CONDITION Demolished			
DESCRIPTION 1) CONSTRUCTIONAL MATERIAL Concrete 2) ROOF MATERIALS AND STRUCTURE Concrete 3) POWER SOURCE 4) DIMENSIONS i) L ii) W iii) HT 5) The remains of the magazine were probably destroyed when Horsemill was canalised in the early 1970s.			

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THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
NUMBER	OLD SERIES	RCHME NUMBER	N.G.R.
	116		TL 37432 01570
NAME/FUNCTION		START DATE	END DATE
The Great Stove (Gallows Gate Stove)		pre1735	
A Stove		pre 1783	1827 by 1827
Corning House No.1		1827 by 1827	1865
Breaking Down House No1 and Pebble Cutting House		1865 (rebuilt 1891)	1925?(disuse)
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
1783	WASC 900/01 + MR 593 ; A Stove	1735	Farmer J. Engraving ; The Great Stove
1783	WASC 900/01A ; A House for Drying Gunpowder	1783	WASC 1262 ; Gallows Gate Stove (Great Stove)
1801	WASC 900/58 + MR 580 ; Upper Stove	1807	Statement of Property WO55 2694
1827	WASC 900/04 + MPH 271 ; Corning House No.1	1830	Statement of Property WO55 2351 ; Corning House
1830	WO55 2694 ; 139	1841	Statement of Property WO55 2856 ; Corning House
1830	WASC 900/05 ; Corning House No.1	1851	Statement of Property WO55 3027
c1835	WASC 900/07 ; Corning House No.1	1908	RGPF Ledger WASC 1509 + WASC 1764 ; Gunpowder Breaking Down House built 1891 p12
1865	WASC 900/42 ; Breaking Down House and Pebble Cutting House	c1925	RGPF Ledger WASC 1680 ; Gunpowder Breaking Down (demolished)
1886	WASC 900/38 + SUPP5 975 ; Breaking Down House No1 and Pebble Cutting House	c1945	RGPF Ledger WASC 1508 ; Gunpowder Breaking Down House (demolished)
1897	WASC 900/53C	1885	WASC 901/139 26.Aug 1885 Proposed plan of traverse near Breaking down House
c1910	WASC 900/65 ; 116	1890	WASC 901/146 11.Oct.1890 No1 Breaking Down House reads "Building Demolished 1949"
c1910	WASC 900/79 ; 116	1890	WASC 901/146 11.Oct.1890 Breaking Down House reads "Building Demolished 1949"
1917	WASC 900/70 ; 116	1894	WASC 901/146A 30.Nov.1894 No1 Breaking Down House reads "Building Demolished 1949"
1917	WASC 900/72 ; 116		WASC 901/148 Not Dated No1 Breaking Down House Traverse & Shoe House "Building Demolished 1949"
1919	WASC 900/74 ; 116		
c1920	WASC 900/80 ; 116		
1923	WASC 900/84 ; 116		
1932	WASC 900/87 ; 116		
> 1940	WASC 900/91A ; 116		
1954	A - B.34 ; 116		
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
Negatives PRO Supply 5 863 321,323-6,327,329 →			
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: 117 →			
CONDITION		Demolished	

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DESCRIPTION

- 5) The cartographic evidence suggests a number of rebuilding phases probably reusing the same foundations. Photographs in the Public Records Office, supply 5 863, taken in January 1941 shows the building with its superstructure and bay demolished. The photographs negatives 323-326 also show views of the Breaking down machines and the cast iron mill with the words "Taylor and Chall..." presumed to be Taylor and Challen of Birmingham.

It is unclear how much of this building was removed when the Horsemill Stream was widened. Remains of this building may survive beneath the the eastern bank of the Horsemill Stream.

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THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY


NUMBER	OLD SERIES 117	RCHME NUMBER	N.G.R. TL 37431 01554
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NAME/FUNCTION part of Corning House part of Dusting House No.2 Washing Up House/Shoe Room	START DATE pre 1821 1865? 1865?	END DATE 1865? 1865? 1945?
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NO PHOTOGRAPHY AVAILABLE

<p>CARTOGRAPHIC DEPICTION</p> <p>1827 WASC 900/04 + MPH 271 ; part of No.1 Corning House</p> <p>1830 WO55 2694 ; part of glazing Mill</p> <p>1830 WASC 900/05 ; building connected to No.1 Corning House</p> <p>c1835 WASC 900/07 ; building connected to No.1 Corning House</p> <p>1865 WASC 900/38 + SUPP5 975 ; part of Dusting House No.2</p> <p>1865 WASC 900/42 ; Shoe House</p> <p>1897 WASC 900/53C</p> <p>c1910 WASC 900/65 ; 117</p> <p>c1910 WASC 900/79 ; 117</p> <p>1917 WASC 900/70 ; 117</p> <p>1917 WASC 900/72 ; 117</p> <p>1919 WASC 900/74 ; 117</p> <p>c1920 WASC 900/80 ; 117</p> <p>1923 WASC 900/84 ; 117</p> <p>1932 WASC 900/87 ; 117</p> <p>> 1940 WASC 900/91A ; 117</p>	<p>DOCUMENTARY REFERENCES</p> <p>1888 Maj Gen W.H.Wardell Handbook of Gunpowder & Guncotton 1888 p52 point no.6</p> <p>1895 Oscar Guttman The Manufacture of Explosives Vol1 1895 p222-224</p> <p>Maj Frazer Baddeley R.A. Pamphlet on The Manufacture of Gunpowder Waltham Abbey p17</p> <p>Capt F.M.Smith R.A.Handbook of The Manufacture and Proof of Gunpowder as Carried on at The RGPF Waltham Abbey p69-71</p> <p>1830 Statement of Property WO55 2351 ; part of Glazing Mill</p> <p>1841 Statement of Property WO55 2856 ; Washing Up House</p> <p>1851 Statement of Property WO55 3027</p> <p>1908 RGPF Ledger WASC 1509 + WASC 1764 ; Shoe Room built pre1860 p10</p> <p>c1925 RGPF Ledger WASC 1680 ; Shoe Room</p> <p>c1945 RGPF Ledger WASC 1508 ; Shoe Room</p>
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PHOTOGRAPHY HISTORIC	PHOTOGRAPHY RCHME
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RELATIONSHIPS WITH OTHER MONUMENTS
ASSOCIATED WITH: 116 

CONDITION Demolished

DESCRIPTION
5) It is unclear how much of this building was removed when the Horsemill Stream was widened. The building may survive as a buried feature beneath the eastern bank of the Horsemill Stream.

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THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER	OLD SERIES 125	RCHME NUMBER	N.G.R. TL 37438 01455
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NAME/FUNCTION Engine House & Tumbling Room Glazing & Dusting House Granulating & Dusting House <i>x</i>	START DATE pre 1783 1783 1900?	END DATE 1900? post 1957
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NO PHOTOGRAPHY
AVAILABLE

1830 Dragon F plan elevation p 21

CARTOGRAPHIC DEPICTION	DOCUMENTARY REFERENCES
1783 WASC 900/01 + MR 593 ; Engine House & Tumbling Room	1783 WASC 1262 ; Engine House & Tumbling Room
1783 WASC 900/01A ; A Water Mill to Corn Gunpowder & an Engine For Glazing & Dusting Gunpowder	1807 Statement of Property WO55 2694 ; <i>Glazing Mill J.</i>
1801 WASC 900/58 + MR 580	1830 Statement of Property WO55 2351 ; Glazing Mill ; <i>1835 Glazing Mill J.</i>
1827 WASC 900/04 + MPH 271 ; Glazing Mill	+ 1841 Statement of Property WO55 2856 ; Glazing Mill ; <i>Glazing Mill</i>
1830 WO55 2694 ; 135	1851 Statement of Property WO55 3027 ; <i>46 Glazing Mill J.</i>
1830 WASC 900/05 ; Glazing Mill	1888 Maj Gen W.H.Wardell Handbook of Gunpowder & Guncotton 1888 p52 point no.6
c1835 WASC 900/07 ; Glazing Mill	1895 Oscar Guttman The Manufacture of Explosives Vol1 1895 p222-224
1865 WASC 900/38 + SUPP5 975 ; Dusting House No.2	Maj Frazer Baddeley R.A. Pamphlet on The Manufacture of Gunpowder Waltham Abbey p17
1865 WASC 900/42 ; Dusting House No.2	Capt F.M.Smith R.A.Handbook of The Manufacture and Proof of Gunpowder as Carried on at The RGPF Waltham Abbey p69-71
1897 WASC 900/53C	1908 RGPF Ledger WASC 1509 + WASC 1764 ; Gunpowder Granulating & Dusting House built 1850 p13
c1910 WASC 900/65 ; 125	c1925 RGPF Ledger WASC 1680 ; Gunpowder Granulating & Dusting House
c1910 WASC 900/79 ; 125	c1945 RGPF Ledger WASC 1508 ; Gunpowder Granulating & Dusting House
1917 WASC 900/70 ; 125	WASC 901/212 Plan & Elevation of a wood bridge proposed to be put up across the MillHead Between 122 & 125 mills Not dated
1917 WASC 900/72 ; 125	WASC 901/213 Plan & Elevation of a wood bridge proposed to be put up across the MillHead Between 122 & 125 mills Not dated
1919 WASC 900/74 ; 125	1844 WASC 901/216 Cast Iron gates for Nos 125 & 126 mills
c1920 WASC 900/80 ; 125	
1923 WASC 900/84 ; 125	
1932 WASC 900/87 ; 125	
> 1940 WASC 900/91A ; 125	
1954 A - B.34	

PHOTOGRAPHY HISTORIC	PHOTOGRAPHY RCHME
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RELATIONSHIPS WITH OTHER MONUMENTS

ASSOCIATED WITH: 126



CONDITION Destroyed

DESCRIPTION

5) The building was destroyed when the Horsemill Stream was widened in the 1970s.

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THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
NUMBER	OLD SERIES 132	RCHME NUMBER	N.G.R. TL 37456 01413
NAME/FUNCTION Magazine	START DATE pre 1821	END DATE post 1957	
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION 1827 WASC 900/04 + MPH 271 ; Receiving Magazine 1830 WO55 2694 ; 134 1830 WASC 900/05 ; Magazine c1835 WASC 900/07 ; Magazine 1865 WASC 900/38 + SUPP5 975 ; Double Magazine 1865 WASC 900/42 ; Double Magazine 1897 WASC 900/53C c1910 WASC 900/65 ; 132 c1910 WASC 900/79 ; 132 1917 WASC 900/70 ; 132 1917 WASC 900/72 ; 132 1919 WASC 900/74 ; 132 c1920 WASC 900/80 ; 132 1923 WASC 900/84 ; 132 1932 WASC 900/87 ; 132 > 1940 WASC 900/91A ; 1321 1954 A - B.34		DOCUMENTARY REFERENCES 1807 Statement of Property WO55 2694 1830 Statement of Property WO55 2351 ; Magazine 1841 Statement of Property WO55 2856 ; Magazine 1851 Statement of Property WO55 3027 1908 RGPF Ledger WASC 1509 + WASC 1764 ; Magazine built 1850 p14 c1925 RGPF Ledger WASC 1680 ; Magazine c1945 RGPF Ledger WASC 1508 ; Magazine	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: Millhead Stream RCHME 296			
CONDITION Destroyed			
DESCRIPTION 5) The building probably destroyed when the Horse mill Stream was widened in the 1970s.			

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THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER	OLD SERIES 148,149,150	RCHME NUMBER	N.G.R. TL 37481 01320
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NAME/FUNCTION New Stove Gloom Stove No.2 Steam Stove Gunpowder Blending House/Wood Shed/EC	START DATE 1783-1801 1787 1827? 1865? by 1841 1900?	END DATE 1827? 1865? by 1841 1900? 197?
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NO PHOTOGRAPHY AVAILABLE
1806 Highson Description of London. illustration

CARTOGRAPHIC DEPICTION	DOCUMENTARY REFERENCES
1801 WASC 900/58 + MR 580 ; New Stove 1806? WO 78/1352 + MR 580 1827 WASC 900/04 + MPH 271 ; Gloom Stove 1830 WO55 2694 1830 WASC 900/05 c1830 WASC 900/06 c1835 WASC 900/07 1861-1868 WASC 900/10A 1865 WASC 900/13 1865 WASC 900/14 1871 SUPP5 682 1865 WASC 900/38 + SUPP5 975 ; No.2 Steam Stove 1865 WASC 900/41A 1865 WASC 900/42 1897 WASC 900/53C 1897 OS 2nd Ed Essex XLIX. 10 c1910 WASC 900/65 c1910 WASC 900/79 1917 WASC 900/70 1917 WASC 900/72 1919 WASC 900/74 c1920 WASC 900/80 1923 WASC 900/84 ; G.P. Blending House 1954 A-B.35 Br:1841 only.	1908 RGPF Ledger WASC 1509 + WASC 1764; Gunpowder blending house, wood shed & Earth Closet built pre 1840 p16 1787 Gloom Stove of great weight in view of preparation *1827 MPH 271 Wintus 1807 p 29 1830 WASS/2694 100 Gloom Stove. 1841 WASS/2856 100 Gloom Stove now converted into Steam Stove. 1854 FHN Nov 11 p 478 illustration. 1830 *Dragon F p 24

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THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
NUMBER	OLD SERIES 148,149,150	RCHME NUMBER	N.G.R. TL 3744 0134
NAME/FUNCTION Gunpowder Stove No2 Gunpowder Blending house		START DATE 1795? c1900-27	END DATE 197?
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION 1801 PRO WO78/1352; New Stove 1806 PRO MR 580 (1) 1827 WASC 900/04; 99,100,101 1886 WASC 900/38; No2 Gunpowder stove 1897 OS Essex XLIX 14 c1900 WASC 900/79; No2 Gunpowder stove 1923 WASC 900/84; 148 Gunpowder Blending house, 149 Wood shed, 150 EC 1954 A-B.35-Buildings only		DOCUMENTARY REFERENCES 1856 WASC 901/116 17 Nov 1856 Plan Section showing proposed alterations to the Old Steam Stove 1894 WASC 901/116A 30 Nov 1894 No2 Steam stove Includes "construction table" 1908 RGPF Ledger WASC 1509 p16 148 Gunpowder stove built before 1840 WASC 901/152 No2 Steam Stove Not dated 149 Wood Shed built before 1840 1963 Simmons p31. "A steam stove was completed and put into operation in June 1795"	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS			
CONDITION Demolished			
DESCRIPTION 1) CONSTRUCTIONAL MATERIAL Brick 2) ROOF MATERIALS AND STRUCTURE Tiles 3) POWER SOURCE 4) DIMENSIONS i) L ii) W iii) HT 5) The N.G.R. is a group centre for the building group. The remains of the buildings were probably destroyed in the early 1970s during the canalisation of Horsemill Stream. Fragments of the building complex may survive on the Western bank of Horsemill Stream.			

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*end by 1854/
1827 Kiln
Hass Kiln now covered in stone.
2056*

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THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
NUMBER	OLD SERIES 155	RCHME NUMBER	N.G.R. TL 37542 01312
NAME/FUNCTION Magazine		START DATE pre 1861	END DATE 1960? 1993(exists as ruins)
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
1865 WASC 900/38 + SUPP5 975 ; Magazine 1865 WASC 900/41A ; Magazine 1865 WASC 900/42 ; Magazine 1897 WASC 900/53C c1910 WASC 900/65 ; 155 c1910 WASC 900/79 ; 155 1917 WASC 900/70 ; 155 1917 WASC 900/72 ; 155 1919 WASC 900/74 ; 155 c1920 WASC 900/80 ; 155 1923 WASC 900/84 ; 155 1932 WASC 900/87 ; 155 >1940 WASC 900/91A ; 155 1954 A - B.34 ; L129 c1960 WASC 900/94 ; 155 c1963 WASC 900/97 1972 WASC 900/102 1972 WASC 900/104 1976 WASC 900/113		1908 RGPF Ledger WASC 1509 + WASC 1764 ; Magazine built pre 1860 p18 c1925 RGPF Ledger WASC 1680 ; Magazine(L129) c1945 RGPF Ledger WASC 1508 ; Magazine(L129)	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME 1) 206/N/21 12 Mar 1993 Detail of barge porch 206/N/22 12 Mar 1993 From South West	
RELATIONSHIPS WITH OTHER MONUMENTS			
ASSOCIATED WITH: Millhead Stream RCHME 296 ➔			
CONDITION		Fair	

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DESCRIPTION

1) CONSTRUCTIONAL MATERIAL
Brick in English bond

2) ROOF MATERIALS AND STRUCTURE
Hipped, slate over brick vault

3) POWER SOURCE
Steam heating

4) DIMENSIONS i) L 7.4m ii) W 7.1m iii) HT Eave 3.2m

5) The magazine is single storeyed with a T shaped ground plan, there is a single buttress on the east elevation. Its only entrance was from a covered porch served from Millhead stream RCHME 296 the porch is in brick and is an integral part of the structure. The porch had a timber floor covered by leather fixed by copper nails part of which remains. The magazine was entered through a door with a cambered brick head. floor of the magazine was also timber supported on sub floor brick piers. The magazine has a brick vaulted hipped roof covered by slates.

The magazine was heated by steam pipes closeby the magazine and probably derived from the building was a cast iron steam trap 'No.3 trap syphonia Royles Limited'.

Historic artefacts - section of leather floor and steam trap

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THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
NUMBER	OLD SERIES	RCHME NUMBER	N.G.R.
	157		TL 37594 01270
NAME/FUNCTION		START DATE	END DATE
Shoe Room/House		pre 1860	1957?
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
1865	WASC 900/38 + SUPP5 975 ; Shoe House	1908	RGPF Ledger WASC 1509 + WASC 1764 ; Shoe Room built pre 1860 p18
1865	WASC 900/41A ; Shoe House	c1925	RGPF Ledger WASC 1680 ; Shoe Room
1865	WASC 900/42 ; Shoe House	c1945	RGPF Ledger WASC 1508 ; Shoe Room
1897	WASC 900/53C		
c1910	WASC 900/65 ; 157		
c1910	WASC 900/79 ; 157		
1917	WASC 900/70 ; 157		
1917	WASC 900/72 ; 157		
1919	WASC 900/74 ; 157		
c1920	WASC 900/80 ; 157		
1923	WASC 900/84 ; 157		
1932	WASC 900/87 ; 157		
> 1940	WASC 900/91A ; 157		
1954	A - B.34		
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: 159 ➔			
CONDITION	Demolished		
DESCRIPTION			
5) No surface remains, may survive as a buried feature.			

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THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER	OLD SERIES	RCHME NUMBER	N.G.R.
	159		TL 57592 01238
NAME/FUNCTION	START DATE	END DATE	
The Dusting House	pre 1735		
Running Houses (old & new)	pre 1783		
Dusting Houses & Barrel House	1783	1827	
Dusting House	1827	by 1865	
Dusting and Glazing House	pre 1865	post 1957?	
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION	DOCUMENTARY REFERENCES		
1783 WASC 900/01 + MR 593 ; Running House & Old Running House	1735	Farmer J. Engraving ; "18" The Dusting House	
1783 WASC 900/01A ; Dusting House & old Dusting House proposed Barrel House	1783	WASC 1262 ; Running House & Old Running House	
1801 WASC 900/58 + MR 580 ; Dusting House & Cooperage	1807	Statement of Property WO55 2694	
1827 WASC 900/04 + MPH 271 ; Principle Dusting House	1830	Statement of Property WO55 2351 ; Principle Dusting House	
1830 WO55 2694 ; 129	1830 Drayson F Drawings of the buildings, Machinery and equipment of the Gunpowder Works at Waltham Abbey' page 20 (may be this mill??) PRO MP 11.15		
1830 WASC 900/05 ; Principle Dusting House	1841	Statement of Property WO55 2856 ; Principle Dusting House	
c1835 WASC 900/07 ; Principle Dusting House	1851	Statement of Property WO55 3027	
1865 WASC 900/41A ; Dusting & Glazing House	1888	Maj Gen W.H.Wardell Handbook of Gunpowder & Guncotton 1888 p52 point no.6	
1865 WASC 900/42 ; Dusting & Glazing House	1895	Oscar Guttman The Manufacture of Explosives Vol1 1895 p222-224	
1886 WASC 900/38 + SUPP5 975 ; Dusting & Glazing House	Maj Frazer Baddeley R.A. Pamphlet on The Manufacture of Gunpowder Waltham Abbey p17		
1897 WASC 900/53C	Capt F.M.Smith R.A.Handbook of The Manufacture and Proof of Gunpowder as Carried on at The RGPF Waltham Abbey p69-71		
c1910 WASC 900/65 ; 159	1908	RGPF Ledger WASC 1509 + WASC 1764 ; Dusting House No.3 pre 1860 p18	
c1910 WASC 900/79 ; 159	c1925	RGPF Ledger WASC 1680 ; Dusting House No.3	
1917 WASC 900/70 ; 159	c1945	RGPF Ledger WASC 1508 ; Dusting House No.3	
1917 WASC 900/72 ; 159			
1919 WASC 900/74 ; 159			
c1920 WASC 900/80 ; 159			
1923 WASC 900/84 ; 159			
1932 WASC 900/87 ; 159			
> 1940 WASC 900/91A ; 159			
1954 A - B.34			
c1960 WASC 900/94			

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PHOTOGRAPHY HISTORIC	PHOTOGRAPHY RCHME 1) 206/N/13 12 Mar 1993 Dusting house from South East 206/N/14 12 Mar 1993 Detail of central wheel
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RELATIONSHIPS WITH OTHER MONUMENTS

ASSOCIATED WITH: 157, Millhead Stream, RCHME 223, RCHME 296

CONDITION Fair

DESCRIPTION

1) CONSTRUCTIONAL MATERIAL
Brick in English bond

3) POWER SOURCE
Water

4) DIMENSIONS See below

5) The cartographic evidence suggests that two earlier structures may underlie the present mill the foundations of which ~~at least~~ may date from the 1820s.

This mill site represents the ~~best~~ above ground remains of a gunpowder processing mill on the site powered by a centrally driven waterwheel.

The mill survives as brick foundations in English bond either side of a central wheel pit. The wheel was powered from Millhead Stream, the flow of water onto the wheel regulated by a metal curving ~~sluice~~ gate. A scar on the side of the wheel pit indicates that the wheel was 4m in diameter. To either side of the pit and within the adjacent mills are two slots that would have formerly housed the pit wheels. The remains indicate that the wheel was a low breast shot wheel.

The mill to the south measures 18m in length and 7.3m in width. The revetment along Millhead Stream has been rebuilt in concrete and corrugated iron, however the other three walls of the mill are in brick. On the mill platform are low concrete sill walls with vertical mounting bolts for a timber framed wall. Within the building are sandstone machine bases with vertical mounting bolts. Packed around these bases is brick rubble perhaps indicating a cellared interior.

The mill north of the central pit measures 13.2m in length and 6.4m in width. Internally are sandstone machine bases and brick and slate rubble. All four sides of this mill are laid in brick in English Bond.

The Dusting House has latterly been protected by concrete traverse to the north and south and probably to the east also. The traverse to the north has battered walls, it measures 7.3m x 3.07m and 4m in height. A narrow channel separated it from 159. The traverse to the south also has battered sides, it measures 5.9m x 2.8m with a height of 4.2m. A channel existed between it and 159 that was covered by timber decking. On the opposite side of the tailrace to the east of the mill is a concrete foundation 36.5m in length that may mark the site of a further traverse.

The first remains indicate that the present structure is of more than one date has a number of structural phases within it.

most complete

working bay + sluice

brick

brick

mass

walls

the mill body.

the mill body

tailrace

8

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
NUMBER	OLD SERIES 165	RCHME NUMBER	N.G.R. TL 37619 01170
NAME/FUNCTION The Store House Magazine Temporary Dusting House Barrel House		START DATE pre 1735 pre 1783 1827? 1865?	END DATE 1827? 1865? post 1957
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
1783 WASC 900/01 + MR 593 ; The Magazine 1783 WASC 900/01A ; The Powder Magazine 1801 WASC 900/58 + MR 580 ; Old Magazine 1827 WASC 900/04 + MPH 271 ; Temporary Dusting House 1830 WO55 2694 ; 127 1830 WASC 900/05 ; Temporary Dusting House c1835 WASC 900/07 ; Temporary Dusting House 1865 WASC 900/38 + SUPP5 975 ; Barrel House 1865 WASC 900/41A ; Barrel House 1865 WASC 900/42 ; Barrel House 1897 WASC 900/53C c1910 WASC 900/65 ; 165 c1910 WASC 900/79 ; 165 1917 WASC 900/70 ; 165 1917 WASC 900/72 ; 165 1919 WASC 900/74 ; 165 c1920 WASC 900/80 ; 165 1923 WASC 900/84 ; 165 1932 WASC 900/87 ; 165 >1940 WASC 900/91A ; 165 1954 A - B.34 ; L165 c1960 WASC 900/94 ; 165		1735 Frammer J. Engraving ; "17" The Store House 1783 WASC 1262 ; The Magazine (Store House) 1807 Statement of Property WO55 2694 1830 Statement of Property WO55 2351 ; Temporary Dusting House 1841 Statement of Property WO55 2856 ; Temporary Dusting House 1851 Statement of Property WO55 3027 1908 RGPF Ledger WASC 1509 + WASC 1764 ; Barrel House No.2 pre 1860 p18 c1925 RGPF Ledger WASC 1680 ; Barrel House No.2 c1945 RGPF Ledger WASC 1508 ; Barrel House No.2	
PHOTOGRAPHY HISTORIC PRO Supply 3 663 neg317 damage caused by parachute bomb 13.Nov 1940		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: Millhead stream RCHME 296			
CONDITION		Fair	

DESCRIPTION


1) CONSTRUCTIONAL MATERIAL
Brick in Flemish bond

3) POWER SOURCE

4) DIMENSIONS i) L 12.3m ii) W iii) HT surviving 1.15m

5) A section of the brick foundations laid in Flemish bond survives formerly the eastern foundation of the building against the tailrace. The northern return of the wall is visible although partly buried by rubble. The southern return was not visible, it however probably remains buried just to the north of the modern road to H67. The platform that the building sat on between Millhead stream and the tailrace is partly covered in rubble. The potential for the survival of archaeological deposits is good.

72

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
NUMBER	OLD SERIES 165a	RCHME NUMBER	N.G.R. TL 37613 01152
NAME/FUNCTION Gunpowder Incorporating Mill No.7		START DATE 1910?	END DATE post 1957
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
c1910 WASC 900/65 ; 165a c1910 WASC 900/79 ; 165a 1917 WASC 900/70 ; 165a 1917 WASC 900/72 ; 165a 1919 WASC 900/74 ; 165a c1920 WASC 900/80 ; 165a 1923 WASC 900/84 ; 165a 1932 WASC 900/87 ; 165a >1940 WASC 900/91A ; 165a 1954 A - B.34 ; H3 c1960 WASC 900/94 ; 165a		c1925 RGPF Ledger WASC 1680 ; Gunpowder Incorp. Mill No.7 c1945 RGPF Ledger WASC 1508 ; Gunpowder Incorp. Mill No.7	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: Millhead Stream RCHME 296 			
CONDITION		Demolished	
DESCRIPTION			
5) The site of this mill probably lies beneath the road to H67. Brick foundations of the mill may survive beneath the road.			

8

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER	OLD SERIES 181	RCHME NUMBER	N.G.R. TL 37632 01132
NAME/FUNCTION Corning House Gunpowder Mills Incorporating Mills 3	START DATE pre 1783 1814 1936	END DATE 1814 1865? Sept 1936	

NO PHOTOGRAPHY
AVAILABLE

<p>CARTOGRAPHIC DEPICTION</p> <p>1783 WASC 900/01A ; A House formerly used to Corn Powder in with Hand Engines (proposed Barrel House)</p> <p>1801 WASC 900/58 + MR 580</p> <p>1827 WASC 900/04 + MPH 271 ; (on site of above) New Mills Erected in 1814 on a New Principle</p> <p>1830 WO55 2694 ; 126</p> <p>1830 WASC 900/05 ; Gunpowder Mills</p> <p>c1835 WASC 900/07 ; Gunpowder Mills</p> <p>1865 WASC 900/38 + SUPP5 975 ; Incorp. Mills No.3</p> <p>1865 WASC 900/41A ; Incorp. Mills No.3</p> <p>1865 WASC 900/42 ; Incorp. Mills No.3</p> <p>1897 WASC 900/53C</p> <p>c1910 WASC 900/65 ; 181</p> <p>c1910 WASC 900/79 ; 181</p> <p>1917 WASC 900/70 ; 181</p> <p>1917 WASC 900/72 ; 181</p> <p>1919 WASC 900/74 ; 181</p> <p>c1920 WASC 900/80 ; 181</p> <p>1923 WASC 900/84 ; 181</p> <p>1932 WASC 900/87 ; 181</p> <p>>1940 WASC 900/91A ; 181</p>	<p>DOCUMENTARY REFERENCES</p> <p>1783 WASC 1262 ; Hand Crank Corning House</p> <p>1807 Statement of Property WO55 2694</p> <p>1830 Statement of Property WO55 2351 ; Gunpowder Mills upon an Improved Principle</p> <p>1841 Statement of Property WO55 2856 ; Gunpowder Mills upon an Improved Principle</p> <p>1851 Statement of Property WO55 3027</p> <p>1908 RGPF Ledger WASC 1509 + WASC 1764 ; Incorp. Mills No.3 pre 1850 p20</p> <p>c1925 RGPF Ledger WASC 1680 ; Incorp. Mills No.3 (H6)</p> <p>c1945 RGPF Ledger WASC 1508 ; Incorp. Mills No.3 (H6)</p>
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<p>PHOTOGRAPHY HISTORIC</p> <p>1) RCHME Neg No. BB92/16745 (also PRO Supply 5/860 photo 116) No. 5 mill exploded 2-Oct-1897 with 60lbs Picric Powder</p> <p>RCHME Neg No. BB92/16717 (also PRO Supply 5/860 photo 115) No. 5 mill exploded 2-Oct-1897 with 60lbs Picric Powder</p> <p>2) PRO Supply 5/861 373 Demolition sept 1936</p> <p>WASC 139 Demolition of No3 Gunpowder mill September 1936</p>	<p>PHOTOGRAPHY RCHME</p> <p>1) 206/R/18 19 Mar 1993 Site of mill with broken edge runners</p>
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82

RELATIONSHIPS WITH OTHER MONUMENTS

ASSOCIATED WITH: Millhead stream RCHME 296



CONDITION Demolished

DESCRIPTION

1) CONSTRUCTIONAL MATERIAL
Brick foundations

2) ROOF MATERIALS AND STRUCTURE
-

3) POWER SOURCE
Water

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

5) The site of this mill is marked by a number of broken limestone edge runners. The eastern side of the mill is marked by the brick tail race wall, this is partially buried and other parts have collapsed. odd short lengths of brick foundations may be traced on the platform between the tail race and the line of the canal. The potential for archaeological deposits relating to building surviving in this area is good.

The demolition photograph Supply 5/861 shows a central wheel pit with a mill to either side with stone runners and a iron drenching trough over each mill. The mill superstructure was timber framed.

2

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER	OLD SERIES 182	RCHME NUMBER	N.G.R. TL 37617 01120
NAME/FUNCTION Gunpowder Mills Incorporating Mills 5 & 6		START DATE pre 1827 1877	END DATE 1877 1957?

NO PHOTOGRAPHY
AVAILABLE

<p>CARTOGRAPHIC DEPICTION</p> <p>1827 WASC 900/04 + MPH 271 ; Gunpowder Mills 1830 WO55 2694 ; 119,120 1830 WASC 900/05 ; Gunpowder Mills c1835 WASC 900/07 ; Gunpowder Mills 1865 WASC 900/38 + SUPP5 975 ; Incorp. Mills 5 & 6 1865 WASC 900/41A ; Incorp. Mills 5 & 6 1865 WASC 900/42 ; Incorp. Mills 5 & 6 1897 WASC 900/53C c1910 WASC 900/65 ; 182 c1910 WASC 900/79 ; 182 1917 WASC 900/70 ; 182 1917 WASC 900/72 ; 182 1919 WASC 900/74 ; 182 c1920 WASC 900/80 ; 182 1923 WASC 900/84 ; 182 1932 WASC 900/87 ; 182 > 1940 WASC 900/91A ; 182 1954 A - B.34 ; H4 c1960 WASC 900/94 ; 182</p>	<p>DOCUMENTARY REFERENCES</p> <p>1830 Statement of Property WO55 2351 ; Gunpowder Mills 1841 Statement of Property WO55 2856 ; Gunpowder Mills 1851 Statement of Property WO55 3027 1863 WASC 901/123 16 Feb 1863 Plans Sections of proposed brick screen between No6 Mills on Millhead 1877 WASC 901/131 17 Oct 1877 proposed repairs to Nos 5-6 Mills which occurred 7.Oct.1877 WASC 9091/131A Mills No5-6 includes "Construction" table 1908 RGPF Ledger WASC 1509 + WASC 1764 ; Incorp. Mills No.5 & 6 rebuilt 1877 p20 c1925 RGPF Ledger WASC 1680 ; Incorp. Mills No.5 & 6 (H4) c1945 RGPF Ledger WASC 1508 ; Incorp. Mills No.5 & 6 (H4)</p>
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<p>PHOTOGRAPHY HISTORIC</p> <p>1) RCHME Neg No. BB92/16744 (also PRO Supply 5/860 photo 112) No 5 mill exploded 2-Oct-1897 60lbs Picric Powder</p> <p>RCHME Neg No. BB92/16717 (also PRO Supply 5/860 photo 115) No 5 mill exploded 2-Oct-1897 60lbs Picric Powder</p> <p>2) PRO Supply 5/861 4-5 Explosion at the south end of Mill No.6 7-sept-1877</p> <p>3) PRO Supply 5/860 111-118 Explosion of 60lbs Picric acid 2-oct-1897</p> <p>4) PRO Supply 5/863 Neg 317 Damage caused by Parachute bomb 13.Nov.1940</p>	<p>PHOTOGRAPHY RCHME</p>
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8

RELATIONSHIPS WITH OTHER MONUMENTS

ASSOCIATED WITH: Millhead stream RCHME 296

CONDITION Demolished

DESCRIPTION

- 5) From the catographic evidence it is thought likely that the gunpowder mills underlie the later incorporating mills, the latter perhaps using parts of the earlier foundations. The site of these mills lie on a raised platform between the canal and the western tailrace. The slight elevation of this area suggests that archaeological remains will be present.

81

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER	OLD SERIES 183	RCHME NUMBER	N.G.R. TL 37639 01103
NAME/FUNCTION Gunpowder Mills Incorporating Mills No.2		START DATE 1814 1865?	END DATE 1865? 1950?

NO PHOTOGRAPHY
AVAILABLE

<p>CARTOGRAPHIC DEPICTION</p> <p>1827 WASC 900/04 + MPH 271 ; Gunpowder Mills erected 1814 to a new principle</p> <p>1830 WO55 2694 ; 125</p> <p>1830 WASC 900/05 ; Gunpowder Mills</p> <p>c1835 WASC 900/07 ; Gunpowder Mills</p> <p>1865 WASC 900/38 + SUPP5 975 ; Incorp. Mills No.2</p> <p>1865 WASC 900/41A ; Incorp. Mills No.2</p> <p>1865 WASC 900/42 ; Incorp. Mills No.2</p> <p>1897 WASC 900/53C</p> <p>c1910 WASC 900/65 ; 183</p> <p>c1910 WASC 900/79 ; 183</p> <p>1917 WASC 900/70 ; 183</p> <p>1917 WASC 900/72 ; 183</p> <p>1919 WASC 900/74 ; 183</p> <p>c1920 WASC 900/80 ; 183</p> <p>1923 WASC 900/84 ; 183</p> <p>1932 WASC 900/87 ; 183</p> <p>> 1940 WASC 900/91A ; 183</p> <p>c1960 WASC 900/94 ; 183</p>	<p>DOCUMENTARY REFERENCES</p> <p>1830 Statement of Property WO55 2351 ; Gunpowder Mills erected upon an Improved Principle</p> <p>1841 Statement of Property WO55 2856 ; Gunpowder Mills erected upon an Improved Principle</p> <p>1851 Statement of Property WO55 3027</p> <p>1908 RGPF Ledger WASC 1509 + WASC 1764 ; Incorp. Mills No.2 pre 1850 p20</p> <p>c1925 RGPF Ledger WASC 1680 ; Incorp. Mills No.2 (H6)</p> <p>c1945 RGPF Ledger WASC 1508 ; Incorp. Mills No.2 (H6)</p> <p>WASC 901/151 No2-3 mills No1 Press house No1 Granulating house magazines, 45&6 mills mag and No1 Mag Not dated</p>
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<p>PHOTOGRAPHY HISTORIC</p> <p>1)RCHME Neg No. BB92/16717 (also PRO Supply 5/860 photo 115) No 5 mill exploded 2-Oct-1897 60lbs Picric Powder</p> <p>RCHME Neg No. BB92/16745 (also PRO Supply 5/860 photo 116) No 5 mill exploded 2-Oct-1897 60lbs Picric Powder</p>	<p>PHOTOGRAPHY RCHME</p> <p>1) 206/R/17 19 Mar 1993 Gunpowder mill South side of wheel pit</p>
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<p>RELATIONSHIPS WITH OTHER MONUMENTS</p> <p>ASSOCIATED WITH: Millhead stream RCHME 296</p>
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<p>CONDITION Demolished</p>

DESCRIPTION

- 1) CONSTRUCTIONAL MATERIAL
Brick foundations
- 2) ROOF MATERIALS AND STRUCTURE
-
- 3) POWER SOURCE
Water
- 4) DIMENSIONS i) L ii) W iii) HT
- 5) The remains of the mill are represented by the eastern foundations that form the revetting wall to the eastern tailrace. Within this wall the southern side of the wheel pit survives, the pit is blocked by rubble. On the platform between the tail race and the canal odd lengths of brick foundations may be discerned. One broken limestone edge runner survives in this area. the potential for the survival of archaeoligical deposits in this area is good.

Ca

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER	OLD SERIES 184	RCHME NUMBER	N.G.R. TL 37626 01089
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NAME/FUNCTION Charge House/Magazine	START DATE pre 1783	END DATE post 1957?
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NO PHOTOGRAPHY
AVAILABLE

<p>CARTOGRAPHIC DEPICTION</p> <p>1783 WASC 900/01 + MR 593 ; A Charge House 1783 WASC 900/01A ; A Magazine to hold Mill Charges 1801 WASC 900/58 + MR 580 1827 WASC 900/04 + MPH 271 ; Charge Magazine 1830 WO55 2694 ; 118 1830 WASC 900/05 ; Charge Magazine c1835 WASC 900/07 ; Charge Magazine 1865 WASC 900/38 + SUPP5 975 1865 WASC 900/41A 1865 WASC 900/42 1897 WASC 900/53C c1910 WASC 900/65 ; 184 c1910 WASC 900/79 ; 184 1917 WASC 900/70 ; 184 1917 WASC 900/72 ; 184 1919 WASC 900/74 ; 184 c1920 WASC 900/80 ; 184 1923 WASC 900/84 ; 184 1932 WASC 900/87 ; 184 > 1940 WASC 900/91A ; 184 1954 A - B.34 ; H5 c1960 WASC 900/94 ; 184</p>	<p>DOCUMENTARY REFERENCES</p> <p>1783 WASC 1262 ; A Charge House 1807 Statement of Property WO55 2694 1830 Statement of Property WO55 2351 ; Charge Magazine 1841 Statement of Property WO55 2856 ; Charge Magazine 1851 Statement of Property WO55 3027 1908 RGPF Ledger WASC 1509 + WASC 1764 ; Magazine built pre 1850 p20 c1925 RGPF Ledger WASC 1680 ; Magazine (H5) c1945 RGPF Ledger WASC 1508 ; Magazine (H5) WASC 901/151 No2-3 mills No1 Press house No1 Granulating house magazines, 45&6 mills mag and No1 Mag Not dated</p>
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PHOTOGRAPHY HISTORIC	PHOTOGRAPHY RCHME
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RELATIONSHIPS WITH OTHER MONUMENTS

ASSOCIATED WITH: 182, 196, RCHME 296

CONDITION Demolished

DESCRIPTION

5) The site of the building lies between the canal and the western tail race. The elevated nature of its situation suggests that its foundations will survive as a buried archaeological feature.

2

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
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NUMBER	OLD SERIES 187	RCHME NUMBER	N.G.R. TL 37638 01091
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NAME/FUNCTION Loading Stage	START DATE 1890	END DATE 1950?
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NO PHOTOGRAPHY
AVAILABLE

CARTOGRAPHIC DEPICTION

1897 WASC 900/53C
c1910 WASC 900/65 ; 187
c1910 WASC 900/79 ; 187
1917 WASC 900/70 ; 187
1917 WASC 900/72 ; 187
1919 WASC 900/74 ; 187
c1920 WASC 900/80 ; 187
1923 WASC 900/84 ; 187
1932 WASC 900/87 ; 187
> 1940 WASC 900/91A ; 187

DOCUMENTARY REFERENCES

1908 RGPF Ledger WASC 1509 + WASC 1764 ;
Loading Stage built 1890 p20
c1925 RGPF Ledger WASC 1680 ; Loading Stage
c1945 RGPF Ledger WASC 1508 ; Loading Stage

PHOTOGRAPHY
HISTORIC

PHOTOGRAPHY
RCHME

RELATIONSHIPS WITH OTHER MONUMENTS

ASSOCIATED WITH: Millhead Stream RCHME 296

CONDITION Demolished

DESCRIPTION

5) May survive as a buried feature between Millhead Stream and the eastern tailrace.

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER	OLD SERIES 190	RCHME NUMBER	N.G.R. TL 37645 01083
NAME/FUNCTION The Charging House Charge House/Magazine Magazine		START DATE pre 1735 pre 1783? 1908?	END DATE 1908? 1957?
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION 1783 WASC 900/01 + MR 593 ; A Charging House 1783 WASC 900/01A ; A Magazine to Hold Mill Charges 1801 WASC 900/58 + MR 580 1827 WASC 900/04 + MPH 271 ; Charge Magazine 1830 WO55 2694 ; Charge Magazine 1830 WASC 900/05 ; Charge Magazine c1835 WASC 900/07 ; Charge Magazine 1865 WASC 900/38 + SUPP5 975 1865 WASC 900/41A 1865 WASC 900/42 1897 WASC 900/53C c1910 WASC 900/65 ; 190 c1910 WASC 900/79 ; 190 1917 WASC 900/70 ; 190 1917 WASC 900/72 ; 190 1919 WASC 900/74 ; 190 c1920 WASC 900/80 ; 190 1923 WASC 900/84 ; 190 1932 WASC 900/87 ; 190 > 1940 WASC 900/91A ; 190 1954 A - B.34 ; 190 c1960 WASC 900/94 ; 190 (demolished)		DOCUMENTARY REFERENCES 1735 Farmer J. Engraving ; "15" The Charging House 1783 WASC 1262 ; A Charging House 1807 Statement of Property WO55 2694 1830 Statement of Property WO55 2351 ; Charge Magazine 1841 Statement of Property WO55 2856 ; Charge Magazines 1851 Statement of Property WO55 3027 1858 WASC 901/121 29 Jan 1858 sketch for a Barreling (corrected to heading) up house on Millhead 1858 WASC 901/122 20.June 1858 Plan Section of a Barreling (corrected to heading) up house on Millhead also reads "Item 8 OEA(?) 1858-9" 1858 WASC 901/122A 27 Sept 1858 Plan Section showing the proposed screen to No31 Magazine 1894 WASC 901/122B 30.Nov.1894 Nos2-3 mills magazine 1908 RGPF Ledger WASC 1509 + WASC 1764 ; Magazine built pre 1850 p21 c1925 RGPF Ledger WASC 1680 ; Magazine c1945 RGPF Ledger WASC 1508 ; Magazine	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS ➔ ASSOCIATED WITH: Millhead Stream RCHME 296			
CONDITION		Demolished	
DESCRIPTION 5) The site of the building lies on raised ground between the earthwork remains of the canal and the eastern tailrace. The raised nature of this area suggests that it will survive as a buried archaeological feature.			

22

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER	OLD SERIES 191	RCHME NUMBER	N.G.R. TL 37630 01068
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NAME/FUNCTION The New Mills 19 The New Mills 13&14 Gunpowder Mills Incorporating Mills No.4	START DATE pre 1783? 1783 1827 1886?	END DATE 1827 1886? 1957?
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NO PHOTOGRAPHY AVAILABLE

CARTOGRAPHIC DEPICTION	DOCUMENTARY REFERENCES
1783 WASC 900/01 + MR 593 ; The New Mills 19 1783 WASC 900/01A ; The New Mills 13&14 1801 WASC 900/58 + MR 580 1827 WASC 900/04 + MPH 271 ; Gunpowder Mills 1830 WO55 2694 ; Gunpowder Mills 1830 WASC 900/05 ; Gunpowder Mills c1835 WASC 900/07 ; Gunpowder Mills 1865 WASC 900/38 + SUPP5 975 ; Incorporating Mills No.4 1865 WASC 900/41A ; Incorporating Mills No.4 1865 WASC 900/42 ; Incorporating Mills No.4 1897 WASC 900/53C c1910 WASC 900/65 ; 191 c1910 WASC 900/79 ; 191 1917 WASC 900/70 ; 191 1917 WASC 900/72 ; 191 1919 WASC 900/74 ; 191 c1920 WASC 900/80 ; 191 1923 WASC 900/84 ; 191 1932 WASC 900/87 ; 191 > 1940 WASC 900/91A ; 191 1954 A - B.34 ; H6 c1960 WASC 900/94 ; 191 (demolished)	1783 WASC 1262 ; New Mills 1807 Statement of Property WO55 2694 ; Mills 1830 Statement of Property WO55 2351 ; Gunpowder Mills 1841 Statement of Property WO55 2856 ; Gunpowder Mill 1851 Statement of Property WO55 3027 1908 RGPF Ledger WASC 1509 + WASC 1764 - Uncorp. Mill No.4 pre1850 p20 c1925 RGPF Ledger WASC 1680 ; Incorp. Mill No.4(H6) c1945 RGPF Ledger WASC 1508 ; Incorp. Mill No.4(H6) WASC 901/151 No2-3 mills No1 Press house No1 Granulating house magazines, 45&6 mills mag and No1 Mag Not dated

PHOTOGRAPHY HISTORIC PRO Supply 5/863 neg.316 Damage after parachute bomb 15.Nov.1940	PHOTOGRAPHY RCHME
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RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: Millhead Stream RCHME 296, 197, 211, 211a, RCHME 329, RCHME 353?


CONDITION Demolished

DESCRIPTION
5) The mill has been demolished. The site of the mill lies on a raised platform between the earthworks of the canal and the western tail race. The elevated nature of this area suggests that archaeological deposits relating to this mill probably remain intact.

8

Remove
black
←

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER	OLD SERIES 196	RCHME NUMBER	N.G.R. TL 37653 01054
NAME/FUNCTION Lobby	START DATE 1886	END DATE post 1957?	
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
1897 WASC 900/53C c1910 WASC 900/65 ; 196 c1910 WASC 900/79 ; 196 1917 WASC 900/70 ; 196 1917 WASC 900/72 ; 196 1919 WASC 900/74 ; 196 c1920 WASC 900/80 ; 196 1923 WASC 900/84 ; 196 1932 WASC 900/87 ; 196 > 1940 WASC 900/91A ; 196 1954 A - B.34 ; 196		1908 RGPF Ledger WASC 1509 + WASC 1764 ; Lobby built 1886 p21 c1925 RGPF Ledger WASC 1680 ; Lobby c1945 RGPF Ledger WASC 1508 ; Lobby	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: 198 			
CONDITION	Demolished		
DESCRIPTION			
5) The site of the millmans lobby lies between the earthwork remains of the canal and the eastern tailrace. The raised nature of this area suggests that archaeological deposits relating to this building may survive.			

8

sc

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
NUMBER	OLD SERIES	RCHME NUMBER	N.G.R.
	197		TL 37660 01034
NAME/FUNCTION		START DATE	END DATE
The Dumb Mills	<i>font</i>	pre 1735	1771
Smeaton's Mills		1771	1827?
Gunpowder Mills		1827?	1888?
Charcoal Mill and Mixing House No.1		1888?	c1950
NO PHOTOGRAPHY AVAILABLE			x x x x x

8

<p>CARTOGRAPHIC DEPICTION</p> <p>1783 WASC 900/01 + MR 593 ; Smeatons Mills 1&2 1783 WASC 900/01A ; Smeatons Mills 3&4</p> <p>1827 WASC 900/04 + MPH 271 ; Gunpowder Mills 1830 WO55 2694 ; Gunpowder Mills 1830 WASC 900/05 ; Gunpowder Mills c1835 WASC 900/07 ; Gunpowder Mills 1865 WASC 900/41A ; Charcoal Mill and Mixing House No.1 1865 WASC 900/42 ; Charcoal Mill and Mixing House No.1 1897 WASC 900/53C c1910 WASC 900/65 ; 197 c1910 WASC 900/79 ; 197 1917 WASC 900/70 ; 197 1917 WASC 900/72 ; 197 1919 WASC 900/74 ; 197 c1920 WASC 900/80 ; 197 1923 WASC 900/84 ; 197 1932 WASC 900/87 ; 197 > 1940 WASC 900/91A ; 197</p>	<p>DOCUMENTARY REFERENCES</p> <p>1735 Farmer J. Engraving ; "13 & 14" The Dumb Mills</p> <p>1771 Smeaton J Vol II folio 33v.-39v. (Royal Society Library)</p> <p>1783 WASC 1262 ; Smeatons Mills (The Dumb Mills)</p> <p>1807 Statement of Property WO55 2694 ; Mills 1830 Statement of Property WO55 2351 ; Gunpowder Mills 1841 Statement of Property WO55 2856 ; Gunpowder Mills 1851 Statement of Property WO55 3027 1888 Maj Gen W.H.Wardell Handbook of Gunpowder & Guncotton 1888 p52 point no.6 WASC 901/154 No1 Mixing House & No2 Mixing House Not dated 1894 WASC 901/154A 30.Nov.1894 No2 Mixing House includes construction table 1894 WASC 901/154B 30.Nov.1894 No1 Mixing House includes construction table 1895 Oscar Guttman The Manufacture of Explosives Vol1 1895 p222-224 Maj Frazer Baddeley R.A. Pamphlet on The Manufacture of Gunpowder Waltham Abbey p17 Capt F.M.Smith R.A.Handbook of The Manufacture and Proof of Gunpowder as Carried on at The RGPF Waltham Abbey p69-71</p> <p>1908 RGPF Ledger WASC 1509 + WASC 1764 ; Charcoal Mills pre 1870 p22 c1925 RGPF Ledger WASC 1680 ; Charcoal Mills c1945 RGPF Ledger WASC 1508 ; Charcoal Mills</p> <p>1973 Cherry J."Post Medieval Archaeology" pp.132 c1974 WASC 1060 report on excavations ? WASC 1480? Photocopy of Map H-B25 WASC 1646 Drawings of excavations of Smeatons mill, drawn by Tony Burton</p>
<p>PHOTOGRAPHY HISTORIC</p> <p>1) WASC 1479 Photographs of excavation september 1973</p>	<p>PHOTOGRAPHY RCHME</p>
<p>RELATIONSHIPS WITH OTHER MONUMENTS</p> <p>ASSOCIATED WITH: 199 ➤</p>	
<p>CONDITION bank 0.6m in height.</p>	

8

DESCRIPTION

- 1) CONSTRUCTIONAL MATERIAL
Brick foundations formerly had timber superstructure
- 2) ROOF MATERIALS AND STRUCTURE
-
- 3) POWER SOURCE
Water
- 5) A mill may be shown to have occupied this site from at least the early eighteenth century and archaeological excavations (see below) may suggest the late seventeenth century. In 1771 a mill to a design by the eminent eighteenth century engineer John Smeaton was erected on the site. Later documentary and cartographic evidence indicated that this mill was probably rebuilt.

This is the only gunpowder mill on the site that has been the subject of any previous archaeological investigation (see documentary references above). Two short excavation seasons in the early 1970s suggested that the bank on which the mills sit was created in the late seventeenth century. Three distinct buildings were identified on the site dating between the late seventeenth century and the mid-nineteenth century, along with minor modifications. The consolidation of the canal revetment from timber to brick was also noted.

The field remains consist of most of the eastern brick foundations of the mill, forming also the edge of the tailrace. Within this stretch of wall the central wheel pit is visible although rubble filled. Minor irregular scarps on the platform between the tailrace and Millhead stream are indicative of building remains close to the surface.

The potential for well preserved archaeological deposits in this area is high.

8

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
NUMBER	OLD SERIES 198	RCHME NUMBER	N.G.R. TL 37660 01035
NAME/FUNCTION Charcoal Mill & Mixing House Earth Closet		START DATE 1865? 1906-7(rebuild as E.C.)	END DATE 1906-7(demolished) 1950?
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
1865 WASC 900/38 + SUPP5 975 ; Charcoal Mill and Mixing House 1865 WASC 900/41A 1865 WASC 900/42 1897 WASC 900/53C c1910 WASC 900/65 ; 198 c1910 WASC 900/79 ; 198 1917 WASC 900/70 ; 198 1917 WASC 900/72 ; 198 1919 WASC 900/74 ; 198 c1920 WASC 900/80 ; 198 1923 WASC 900/84 ; 198 1932 WASC 900/87 ; 198 > 1940 WASC 900/91A ; 198		1908 RGPF Ledger WASC 1509 + WASC 1764 ; Brimstone Mixing House(demol)built pre 1870 p22 c1925 RGPF Ledger WASC 1680 ; Brimstone Mixing House(demolished No. given to E.C.) c1945 RGPF Ledger WASC 1508 ; Brimstone Mixing House(demolished No. given to E.C.)	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: 197 →			
CONDITION Demolished			
DESCRIPTION			
5) No surface remains, it may survive as a buried feature.			

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER	OLD SERIES 202 ✕	RCHME NUMBER	N.G.R. TL 37659 01013
NAME/FUNCTION A Charging House Charge Magazine Magazine Saltpetre Store	START DATE pre 1783? 1830 1908? 1907?	END DATE 1803 1908? 1907? 1957?	

NO PHOTOGRAPHY
AVAILABLE

CARTOGRAPHIC DEPICTION	DOCUMENTARY REFERENCES
1783 WASC 900/01 + MR 593 ; A Charging House	1783 WASC 1262 ; A Charge House
1783 WASC 900/01A	
1801 WASC 900/58 + MR 580	1807 Statement of Property WO55 2694
1830 WO55 2694 ; 121	1830 Statement of Property WO55 2351 ; Charge Magazine
1830 WASC 900/05 ; Charge Magazine	1841 Statement of Property WO55 2856 ; Charge Magazine
c1835 WASC 900/07 ; Charge Magazine	1851 Statement of Property WO55 3027
1865 WASC 900/38 + SUPP5 975	1857 Maj Frazer Braddeley R.A. Pamphlet on The Manufacture of Gunpowder 1857 p36-39
1865 WASC 900/41A	1870 Capt F.M.Smith A Handbook of the Manufacture & Proof of Gunpowder as carried out at the RGPF Waltham Abbey Chp2 p10-21 fig 14-16
1865 WASC 900/42	1888 Maj Gen Wardell W.H. Handbook of Gunpowder & Guncotton Chp3 p21-22
1897 WASC 900/53C	1895 Oscar Guttman The Manufacture of Explosives Chp2 p10-21 fig14,16
c1910 WASC 900/65 ; 202	
c1910 WASC 900/79 ; 202	1908 RGPF Ledger WASC 1509 + WASC 1764 ; Magazine built pre 1870 p22
1917 WASC 900/70 ; 202	c1925 RGPF Ledger WASC 1680 ; Magazine(L174) (saltpetre store 06-7)
1917 WASC 900/72 ; 202	1938 Text book of Explosives used in the Service HMSO 1938
1919 WASC 900/74 ; 202	c1945 RGPF Ledger WASC 1508 ; Magazine(L174)
c1920 WASC 900/80 ; 202	
1923 WASC 900/84 ; 202	
1932 WASC 900/87 ; 202	
>1940 WASC 900/91A ; 202	

PHOTOGRAPHY HISTORIC	PHOTOGRAPHY RCHME
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RELATIONSHIPS WITH OTHER MONUMENTS
ASSOCIATED WITH: Millhead Stream RCHME 296 ➔

CONDITION Demolished

DESCRIPTION
5) The building has been demolished, no surface evidence was seen for the building. The foundations may survive as archaeological deposits.

45

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER	OLD SERIES 211	RCHME NUMBER	N.G.R. TL 37652 00994
NAME/FUNCTION Stamping Mills Head Mills 16 Head Mills 7 & 8 Charcoal Store		START DATE pre 1735 pre 1783? 1783 1886 (extn)	END DATE by 1772? Dem pre 1827 1957?

NO PHOTOGRAPHY
AVAILABLE

CARTOGRAPHIC DEPICTION	DOCUMENTARY REFERENCES
1783 WASC 900/01 + MR 593 ; Head Mills 16 1783 WASC 900/01A ; Head Mills 7&8 1801 WASC 900/58 + MR 580 ; Head Mills 1865 WASC 900/38 + SUPP5 975 1865 WASC 900/41A ; Charcoal Store 1865 WASC 900/42 ; Charcoal Store 1897 WASC 900/53C c1910 WASC 900/65 ; Charcoal Store c1910 WASC 900/79 ; Charcoal Store 1917 WASC 900/70 ; 211 1917 WASC 900/72 ; 211 1919 WASC 900/74 ; 211 c1920 WASC 900/80 ; 211 1923 WASC 900/84 ; 211 1932 WASC 900/87 ; 211 > 1940 WASC 900/91A ; 211 1954 A - B.34 ; 211 c1960 WASC 900/94 ; 211 (demolised)	1735 Farmer J. Engraving ; "12" one of two Stamping Mills 1783 WASC 1262 ; Stamping Mills (Head Mills) 1908 RGPF Ledger WASC 1509 + WASC 1764 ; Charcoal Store built pre 1886 p24 c1925 RGPF Ledger WASC 1680 ; Charcoal store c1945 RGPF Ledger WASC 1508 ; Charcoal Store

PHOTOGRAPHY HISTORIC	PHOTOGRAPHY RCHME
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RELATIONSHIPS WITH OTHER MONUMENTS
ASSOCIATED WITH: 211a, 117, RCHME 216, RCHME 329, RCHME 353

CONDITION Demolished potential for buried remains good

DESCRIPTION

3) POWER SOURCE
Water

5) The building has been demolished. The remains of this building may be traced as brick foundations west of the filled canal. Within the building is a section of narrow guage rail, the rail is wooden sheathed by an L iron, guage 18". The potential for archaeological deposits within this area is good.

*

* The Stamping Mills were probably demolished at the end of the Napoleonic Wars. The site was unoccupied for most of the nineteenth century until the early 1840's? when a Charnock Stone was built on its site.

4

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER	OLD SERIES 211a	RCHME NUMBER	N.G.R. TL 37667 00995
NAME/FUNCTION Stamping Mills Head Mills 15 Head Mills 5 & 6 Incorporating Mill No.1 Matrons Room		START DATE pre 1735 pre 1783? 1783 1888? 1910?	END DATE by 1772? Dem pre 1827 1910? 1957?
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
<p>1783 WASC 900/01 + MR 593 ; Head Mills 15</p> <p>1783 WASC 900/01A ; Head Mills 5&6</p> <p>1801 WASC 900/58 + MR 580</p> <p>1865 WASC 900/38 + SUPP5 975 ; Incorporating Mills</p> <p>1865 WASC 900/41A ; Incorporating Mills No.1</p> <p>1865 WASC 900/42 ; Incorporating Mills No.1</p> <p>1897 WASC 900/53C</p> <p>c1910 WASC 900/65 ; Incorp. Mills No.1</p> <p>c1910 WASC 900/79 ; Incorp. Mills No.1</p> <p>1917 WASC 900/70 ; 211a</p> <p>1917 WASC 900/72 ; 211a</p> <p>1919 WASC 900/74 ; 211a</p> <p>c1920 WASC 900/80 ; 211a</p> <p>1923 WASC 900/84 ; 211a</p> <p>1932 WASC 900/87 ; 211a</p> <p>>1940 WASC 900/91A ; 211a</p> <p>1954 A - B.34 ; 211a</p>		<p>1735 Farmer J. Engraving ; "11" one of two Stamping Mills</p> <p>1783 WASC 1262 ; Stamping Mills (Head Mills)</p> <p>1908 RGPF Ledger WASC 1509 + WASC 1764 ; Matrons Room</p> <p>c1925 RGPF Ledger WASC 1680 ; Matrons Room</p> <p>c1945 RGPF Ledger WASC 1508 ; Matrons Room</p>	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
c.1890 from south in Gray et al 1982 p3390		<p style="text-align: center;">Font ↘</p> <p>1) 206/U/1 30-4-93 Contractors excavated hole</p> <p>206/U/2 30-4-93 Contractors excavated hole</p> <p>206/U/3 30-4-93 Contractors excavated hole</p> <p>206/U/4 30-4-93 Contractors excavated hole</p>	
RELATIONSHIPS WITH OTHER MONUMENTS			
ASSOCIATED WITH: Millhead stream RCHME 296, 211 UNDERLIES: A292			
CONDITION Demolished			

Font

197, 191, RCHME 329, RCHME 353



DESCRIPTION

3) POWER SOURCE
Water

5) The building has been demolished. From the earthwork evidence and our knowledge of the demolition processes (pers. comm. M Maclaren), it is thought likely that the foundations and archaeological deposits relating to this structure survive intact.

30th April 1993 - During the removal of the building slab A292 the mechanical digger driver removed upto 2m of 'loose' rubble from beneath the slab. At least three phases of brick work foundations were revealed and a brick lined leat. Depth of archaeological deposits therefore estimated in excess of 2m at this point.

*

* The Sturges mill was probably completed at the end of the Napoleonic wars. Its site was unimportant for most of the nineteenth century until the construction of a new Waterpumping Mill in the second half of the century.

4

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
NUMBER L123	OLD SERIES	RCHME NUMBER	N.G.R. TL 37510 01342
NAME/FUNCTION Magazine solvent store		START DATE 1952	END DATE 198?
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION c1963 WASC 900/97 1972 WASC 900/102 1972 WASC 900/104 1976 WASC 900/113		DOCUMENTARY REFERENCES 1972 ERDE List - Solvent Store 1952 1992 RARDE List - Magazine solvent store	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME 1) 206/N/18 From southwest	
RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: L128 →			
CONDITION Good			
DESCRIPTION 1) CONSTRUCTIONAL MATERIAL Brick 2) ROOF MATERIALS AND STRUCTURE Corrugated asbestos 3) POWER SOURCE Steam heating and electricity 4) DIMENSIONS i) L 4.7m ii) W 2.3m iii) HT 2.75m 5) The building is single storeyed with a rectangular ground plan it has gabled walls east and west. The building is divided into two by a centre partition wall. The northern room was entered through metal grilled doors on the west and east elevations the southern room through double doors on the southern elevation. Attached to the north of the building was an open sided gas bottle store covered by a veranda. The building was protected by a lightning conductor.			

4

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER L128	OLD SERIES 150A	RCHME NUMBER	N.G.R. TL 37520 01335
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NAME/FUNCTION Fuse powder magazine no.2 Radio Chemistry	START DATE 1915 1961	END DATE 198?
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NO PHOTOGRAPHY
AVAILABLE

CARTOGRAPHIC DEPICTION

1917 WASC 900/70 ; Fuse Powder Magazine No.2
 1917 WASC 900/72 ; 150a
 1919 WASC 900/74 ; 150a
 c1920 WASC 900/80 ; 150a
 1923 WASC 900/84 ; 150a
 > 1940 WASC 900/91A ; 150a
 1954 A - B.34 ; L128
 c1960 WASC 900/94 ; L128
 c1963 WASC 900/97 ; L128
 1972 WASC 900/102 ; L128
 1972 WASC 900/104 ; L128
 1976 WASC 900/113 ; L128

DOCUMENTARY REFERENCES

1972 ERDE List - Radio Chemistry Laboratory, 1915, 1961
 1992 RARDE List - Radio Chemistry Laboratory

**PHOTOGRAPHY
HISTORIC**

PRO Supply 5/862 M83 neg A107 June 1930 view from west

**PHOTOGRAPHY
RCHME**

1) 206/N/19 From south
 206/N/20 From west showing blocked barge porch

RELATIONSHIPS WITH OTHER MONUMENTS

ASSOCIATED WITH: L123 OVERLIES: RCHME 300.274.

CONDITION Good

DESCRIPTION

1) CONSTRUCTIONAL MATERIAL
Brick in English bond

2) ROOF MATERIALS AND STRUCTURE
Corrugated asbestos

3) POWER SOURCE
Electricity and steam heating

4) DIMENSIONS i) L 14.6m ii) W 9.3m iii) HT 5m

5) The building is a single storey structure T shaped in plan, its north and south ends are gabled. The building is set on a raised concrete raft supported by concrete piers. the building was originally a magazine served by Millhead Stream RCHME 296 from a porch on the west side. Subsequent to its conversion to laboratories windows have been inserted and the canal side entrance blocked. The building is now entered through a door on the north side of the porch. On the north and south elevations are single windows while on the west elevations are two windows, the north elevation is blank. The interior has been subdivided to create laboratory accomodation. The building is protected by a lightning conductor.

The photograph in Supply 5/862 shows the original structure as windowless entered through the western porch from the canal and a door on the north side of the porch.

4

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
NUMBER	OLD SERIES	RCHME NUMBER 118	N.G.R. TL37526 01375 TL37458 01520
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) Former pipeline, to west of lot [RCHME 118], survives as a row of concrete pipe bases.			

82

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
NUMBER	OLD SERIES	RCHME NUMBER 171	N.G.R. TL 47423 01740
NAME/FUNCTION Shelter		START DATE 1940	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS			
ASSOCIATED WITH: ➤			
CONDITION Fair			
DESCRIPTION			
1) CONSTRUCTIONAL MATERIAL Breeze block			
2) ROOF MATERIALS AND STRUCTURE Flat concrete slabs			
3) POWER SOURCE None			
4) DIMENSIONS i) L 3.45m ii) W 2.35m iii) HT 2.1m			
5) This is a small single storey shelter with a single door on the Eastern side and a blocked window on the South elevation.			

info possible
 770?
 JPB
 SL

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
NUMBER	OLD SERIES	RCHME NUMBER 218	N.G.R. TL 37590 01196
NAME/FUNCTION Temporary Dusting House Barrel House		START DATE pre 1827 1865?	END DATE 1865? 1900?
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
1827	WASC 900/04 + MPHH 271 ; Temporary Dusting House	1807	Statement of Property WO55 2694
1830	WO55 2694 ; 128	1830	Statement of Property WO55 2351 ; Temporary Dusting House
1830	WASC 900/05 ; Temporary Dusting House	1841	Statement of Property WO55 2856 ; Temporary Dusting House
c1835	WASC 900/07 ; Temporary Dusting House	1851	Statement of Property WO55 3027
1865	WASC 900/38 + SUPP5 975 ; Barrel House	1857	Maj Frazer Baddeley R.A. Pamphlet on the Manufacture of Gunpowder Waltham Abbey p17
1865	WASC 900/41A ; Barrel House	1870	Capt F.M.Smith R.A. Handbook of the Manufacture and Proof of Gunpowder as carried on at the RGPF Waltham Abbey p69-71
1865	WASC 900/42 ; Barrel House	1888	Maj Gen W.H.Wardell Handbook of Gunpowder & Guncotton 1888 p52 point No6
1897	WASC 900/53C	1895	Oscar Guttman The Manufacture of Explosives Vol1 1895 p222-224
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME 1) RCHM218 206/L/4 09 Mar 1993 From South West	
RELATIONSHIPS WITH OTHER MONUMENTS			
ASSOCIATED WITH: Millhead Stream RCHME 296			
CONDITION		Demolished	

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8

DESCRIPTION

1) CONSTRUCTIONAL MATERIAL
Brick

3) POWER SOURCE
-

4) DIMENSIONS i) L 9.2m ii) W 5.4m iii) HT 1.15m

5) The foundations of this building survive along the west side where they form the edge of the western tailrace, the north and south walls are almost buried although a small round headed brick arch is visible towards the western end of each wall. The eastern wall of the building is visible on the platform between the tail race and the canal as a slight linear earthwork.

x
x
x

8

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
NUMBER	OLD SERIES	RCHME NUMBER 219	N.G.R. TL 37584 01207
NAME/FUNCTION Weir		START DATE pre 1865 by 1827	END DATE post 1957?
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION 1827 WASC 900/4 1865 WASC 900/38 + SUPP5 975 1865 WASC 900/41A 1865 WASC 900/42 1897 WASC 900/53C c1910 WASC 900/65 c1910 WASC 900/79 1917 WASC 900/70 1917 WASC 900/72 1919 WASC 900/74 c1920 WASC 900/80 1923 WASC 900/84 1932 WASC 900/87 > 1940 WASC 900/91A 1954 A - B.34		DOCUMENTARY REFERENCES	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME 1) 206/L/5 09 Mar 1993 From South West x	
RELATIONSHIPS WITH OTHER MONUMENTS			
ASSOCIATED WITH: Millhead Stream RCHME 296, RCHME 301 →			
CONDITION Fair			
DESCRIPTION			
1) CONSTRUCTIONAL MATERIAL Brick			
4) DIMENSIONS i) L 9.75m ii) W 6.66m iii) HT end walls 0.65m			
5) The weir consists of two vertical walls to the north and south, between these walls is a flat brick surface laid in a herring bone pattern. The western edge is revetted in timber, the eastern edge along Millhead Stream is revetted in later concrete.			

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THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER	OLD SERIES	RCHME NUMBER 222	N.G.R. TL 37568 01234
NAME/FUNCTION Lock		START DATE 1896-7	END DATE post 1957?
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
1897 WASC 900/53C c1910 WASC 900/65 c1910 WASC 900/79 1917 WASC 900/70 1917 WASC 900/72 1919 WASC 900/74 c1920 WASC 900/80 1923 WASC 900/84 1932 WASC 900/87 > 1940 WASC 900/91A 1954 A - B.34 c1960 WASC 900/94 c1963 WASC 900/97 1972 WASC 900/102 ; Lock (disused) 1972 WASC 900/104 ; Lock (disused) 1976 WASC 900/113			
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME 1) 206/L/6 09 Mar 1993 Lock from South 206/L/7 09 Mar 1993 Lock chamber from South East 206/L/8 09 Mar 1993 Gates at North end from South 2) BB92/26217 Lock 1896-7 From South BB92/26218 Detail at North end of lock from North East BB92/26317 View from South East	
RELATIONSHIPS WITH OTHER MONUMENTS			
ASSOCIATED WITH: Millhead Stream RCHME 296, RCHME 301 ➔			
CONDITION		Good	

DESCRIPTION

- 1) CONSTRUCTIONAL MATERIAL
Brick chamber sides, wooden gates
- 3) POWER SOURCE
Muscle
- 4) DIMENSIONS i) L 27.5m ii) W 4.44m iii) chamber depth 2.4m
- 5) The lock controls access between the high level canal system Millhead stream RCHME 296 and the low level system RCHME 301. The date of its construction is coincidental with the building of the south site Guncotton Factory and may reflect the increased barge traffic between the two sites.

The lock chamber and entrances constructed from grey engineering brick, a date stone set into the chamber wall reads '1896-7'. The lock gates are wooden with iron fittings. The lock chamber could be sealed by vertical sluice boards north of the north gates, the vertical slots for the boards remain. The sides of the lock chamber are protected by vertical rubbing boards, access into the chamber was by means of a vertical metal ladders set into the chamber wall on the west and east sides. Around the top of the chamber are set four cannons barrel down to act as mooring bollards.

The lock was filled from the high level system Millhead Stream by the means of two inlet valves sliding vertically and controlled by a hand wheel on a vertical screw thread. This allowed water to be discharged through a pipe to the south of the lock gates to fill the chamber. A similar arrangement is present at the south end of the chamber to discharge water. In this case the pipe is inside the chamber and the outlet valve to the south of the gates. The cast iron valve gear has the following name cast into it 'FREDK BIRD & CO 11 GT CASTLE STREET REGENT ST LONDON'.



82

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
NUMBER	OLD SERIES	RCHME NUMBER 223	N.G.R. TL 37586 01264
NAME/FUNCTION Footbridge		START DATE	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME	
RELATIONSHIPS WITH OTHER MONUMENTS			
ASSOCIATED WITH: 157, 159 ➔			
CONDITION Poor			
DESCRIPTION			
1) CONSTRUCTIONAL MATERIAL Timber			
4) DIMENSIONS i) L 9m ii) W 1.8m			
5) The timber trestles for this bridge remain on the east and west side of the eastern tail race. The bridge formerly carried the path from the dusting house 159 to the shoe room 157 over the tail race.			

A 6

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER	OLD SERIES 249b.	RCHME NUMBER	N.G.R. TL 37800 00836
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NAME/FUNCTION Saw pit Store	START DATE 1806-27	END DATE
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NO PHOTOGRAPHY AVAILABLE

* Plan and elevation.
Droyson F 1830 MP. 11.15 p36
Saw Pit

CARTOGRAPHIC DEPICTION	DOCUMENTARY REFERENCES
1827 MPH 271; 80	1807 W055/2351
1886 WASC 910/42.	1830 W055/2694; 80 Saw pit
1900 WASC 900/79.	* 1841 W055/2856; 80 Saw pit
1923 WASC 900/84; 249b Store.	1851 W055/3027; 42 Saw pit
1945 A-B.35; A-B 242.	1908 R&PF ledger WASC 1509 p28; 250 Store p. 1850

PHOTOGRAPHY HISTORIC	PHOTOGRAPHY RCHME
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RELATIONSHIPS WITH OTHER MONUMENTS

ASSOCIATED WITH: A231 + A234

CUTS: ~~CUT BY:~~ ~~ABUTTS:~~ ~~ABUTTED BY:~~ ~~OVERLIES:~~ ~~UNDERLIES:~~

CONDITION ~~GOOD:~~ ~~FAIR:~~ ~~POOR:~~ ~~VERY BAD:~~ ~~DESTROYED:~~ ~~?BURIED:~~

Demolished.

DESCRIPTION

1) CONSTRUCTIONAL MATERIAL

a) ~~BRICK~~ b) ~~CONCRETE~~ c) ~~BRICK AND CONCRETE~~ d) ~~TIMBER~~ e) ~~CAST IRON~~ f) ~~CORRUGATED IRON~~

2) ROOF MATERIALS AND STRUCTURE

a) ~~SLATE~~ b) ~~TILE~~ c) ~~BRICK~~ d) ~~CONCRETE~~ e) ~~TIMBER AND SHEETING~~ f) ~~CORRUGATED IRON~~

3) POWER SOURCE

a) ~~MUSCLE~~ b) ~~WATER~~ c) ~~STEAM~~ d) ~~GAS~~ e) ~~ELECTRICITY~~ f) ~~COMBUSTION ENGINE~~

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

5) *No surface remains.*

8

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
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NUMBER	OLD SERIES	RCHME NUMBER 257	N.G.R. TL 37615 01981
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NAME/FUNCTION Edge runner	START DATE	END DATE
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NO PHOTOGRAPHY AVAILABLE

CARTOGRAPHIC DEPICTION	DOCUMENTARY REFERENCES
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PHOTOGRAPHY HISTORIC	PHOTOGRAPHY RCHME 1)206/P/17 Mill edge runner
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RELATIONSHIPS WITH OTHER MONUMENTS

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CONDITION Poor

DESCRIPTION 1) CONSTRUCTIONAL MATERIAL Limestone 4) DIMENSIONS ii) W 0.43m iv)DIA 1.9m 5) Broken gunpowder mill edge runner lying to the east of the main leat. Approximately one third of the stone survives, only one complete side the central hole remains 30.5cm in length.

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THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
NUMBER	OLD SERIES	RCHME NUMBER 258	N.G.R. TL 37542 01244
NAME/FUNCTION Millstones		START DATE	END DATE
NO PHOTOGRAPHY AVAILABLE			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
PHOTOGRAPHY HISTORIC		PHOTOGRAPHY RCHME 206/N/15 206/N/16	
RELATIONSHIPS WITH OTHER MONUMENTS		206/N/17	
ASSOCIATED WITH: ➔			
CONDITION	Good		

4

DESCRIPTION

1) CONSTRUCTIONAL MATERIAL
Sandstone

3) POWER SOURCE
Water?

5) Twelve sandstone millstones were found during ground clearance work between L128 and L155. All the stones have a circular central hole and have or had a grooved surface on their running edges. Also included in this deposit was a large broken sandstone bedstone and a number broken sandstone window sills.

1)Diameter: 52cm Thickness:28cm Central hole: 13cm Grooves: 5mm	2)Diameter: 58cm Thickness: 31cm Central Hole: 12.5cm Grooves: 3mm
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3)Diameter: 55cm Thickness: 30cm Central hole: 12.7cm Grooves: 2mm	4)Diameter: 53.5cm Thickness: 30cm Central Hole: 13cm Grooves: 2mm
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5)Diameter: 55cm Thickness: 24.5cm Central hole: 13cm Grooves: 2mm	6)Diameter: 56.5cm Thickness: 30.5cm Central Hole: 13cm Grooves: worn
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7)Diameter: 55cm Thickness: 29.5c Central hole: 13cm Grooves: 1mm	8)Diameter: 56cm Thickness: 30cm Central Hole: 13cm Grooves: worn
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9)Diameter: 53cm Thickness: 30.5cm Central hole: 12.5cm Grooves: 2mm	10)Diameter: 51cm Thickness: 30cm Central Hole: 12.5cm Grooves: worn
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11)Diameter: 57cm Thickness: 28.5cm Central hole: 14cm Grooves: worn	12)Diameter: 69cm Thickness: 24cm Central Hole: 12.5cm Grooves: worn
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THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY			
NUMBER	OLD SERIES	RCHME NUMBER 272	N.G.R. TL 37642 01015
NAME/FUNCTION Hoppit Mills 18 Hoppit Mills 10 & 9 Gunpowder Mills Water Composition Mill & Gunpowder Mill Saltpetre Store, Brimstone and Charcoal Mixing House No.2		START DATE pre 1783? 1783 1827? 1830 1888?	END DATE 1827? 1830 1888? 1900?
NO PHOTOGRAPHY AVAILABLE <i>* 1830 Drayton F Plan relocation p9</i>			
CARTOGRAPHIC DEPICTION		DOCUMENTARY REFERENCES	
1783 WASC 900/01 + MR 593 ; Hoppit Mills 18	1783 WASC 900/01A ; Hoppit Mills 9&10	1783 WASC 1262 ; Hoppit Mill	
1801 WASC 900/58 + MR 580 ; Hoppit Mills	1827 WASC 900/04 + MPH 271 ; Gunpowder Mills	1807 Statement of Property WO55 2694 ; Mills	
c1835 WASC 900/07 ; Gunpowder Mills	1865 WASC 900/38 + SUPP5 975 ; Saltpetre Store, Brimstone & Charcoal Mixing House No.2	1830 Statement of Property WO55 2351 ;	
1865 WASC 900/41A ; Saltpetre Store, Brimstone & Charcoal Mixing House No.2	1865 WASC 900/42 ; Saltpetre Store, Brimstone & Charcoal Mixing House No.2	1841 Statement of Property WO55 2856 ;	
1865 WASC 900/53C	1897 WASC 900/53C	1851 Statement of Property WO55 3027 ;	
		1857 Maj Frazer Baddeley R.A. Pamphlet on The Manufacture of Gunpowder 1857 p36-39	
		1870 Capt F.M.Smith R.A. Handbook of the Manufacture and Proof of Gunpowder as carried on at the RGPF Waltham Abbey Chp2 p10-21 Figs14-16	
		1888 Maj Gen W.H.Wardell Handbook of Gunpowder & Guncotton 1888 Chp3 p21-22	
		1895 Oscar Guttman The Manufacture of Explosives Vol1 1895 p27-40 Fig2-6	
		1938 Textbook of Explosives in the Service p58 →	
PHOTOGRAPHY HISTORIC	PHOTOGRAPHY RCHME		
RELATIONSHIPS WITH OTHER MONUMENTS			
ASSOCIATED WITH: Millhead stream RCHME 296 →			
CONDITION	Good: brick foundations visible on the surface		

82

DESCRIPTION

- 1) CONSTRUCTIONAL MATERIAL
Brick foundations formerly had timber superstructure
- 2) ROOF MATERIALS AND STRUCTURE
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- 3) POWER SOURCE
Water
- 4) DIMENSIONS i) L 30m ii) W 8.3m
- 5) The building has been demolished. The outline of the building may be discerned on the surface as brick foundations. Along the eastern side the brick line may mark the canal edge. The closeness of brick foundations to the surface suggests that archaeological deposits remain intact within the building.

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THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

NUMBER	OLD SERIES	RCHME NUMBER 274	N.G.R. 9 6 TL 37480 01374
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NAME/FUNCTION The Little Stove Stove Gloom Stove Heading Up House/Barreling House	START DATE pre 1735 pre 1783 1827 1851?	END DATE 1827 1851? 1900?
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NO PHOTOGRAPHY AVAILABLE

<p>CARTOGRAPHIC DEPICTION</p> <p>1783 WASC 900/01 + MR 593 ; A Stove 1783 WASC 900/01A ; A Stove to Dry Gunpowder 1801 WASC 900/58 + MR 580 ; Lower Stove 1827 WASC 900/04 + MPH 271 ; Gloom Stove 1830 WO55 2694 ; 132 1830 WASC 900/05 ; Small Gloom Stove c1835 WASC 900/07 ; Gloom Stove 1865 WASC 900/38 + SUPP5 975 ; Heading up House 1865 WASC 900/42 ; Heading up House 1897 WASC 900/53C</p>	<p>DOCUMENTARY REFERENCES</p> <p>1735 Farmer J. Engraving ; "19" The Little Stove 1783 WASC 1262 ; A Stove (Little Stove) 1807 Statement of Property WO55 2694 1830 Statement of Property WO55 2351 ; Gloom Stove 1841 Statement of Property WO55 2856 ; Gloom Stove 1851 Statement of Property WO55 3027 ; Old Gloom Stove now Barrel House</p>
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PHOTOGRAPHY HISTORIC	PHOTOGRAPHY RCHME
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RELATIONSHIPS WITH OTHER MONUMENTS
ASSOCIATED WITH: Millhead Stream RCHME 296

CONDITION Good

DESCRIPTION
5) Probably removed when Horsemill Stream was widened in the early 1970s.

