

THE ROYAL GUNPOWDER FACTORY

WALTHAM ABBEY

Buildings

L174-199



THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

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|----------------|------------|--------------|-----------------------|
| NUMBER L175 | OLD SERIES | RCHME NUMBER | N.G.R. 37615 01692 |
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| NAME/FUNCTION Firing Control Burning Ground | START DATE 1963 | END DATE |
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| <p>CARTOGRAPHIC DEPICTION</p> <p>1972 WASC 900/102 ; L175 1972 WASC 900/104 ; L175 1976 WASC 900/113 ; L175</p> | <p>DOCUMENTARY REFERENCES</p> <p>1972 ERDE List ; Firing Control Burning Ground 1991 Mott McDonald survey 1992 RARDE List ; Firing Control Burning Ground</p> |
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| <p>PHOTOGRAPHY HISTORIC</p> | <p>PHOTOGRAPHY RCHME</p> <p>1) 206/F/3 From South East</p> |
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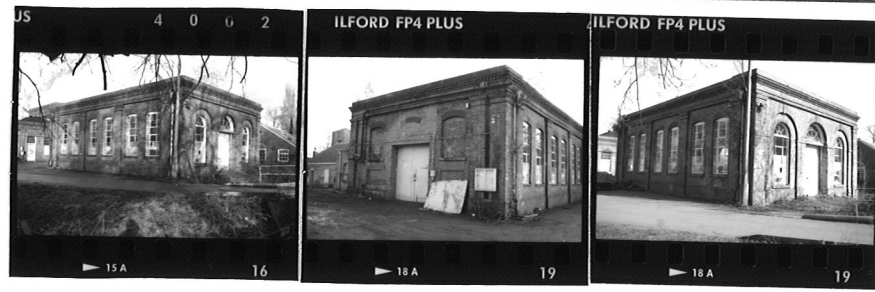
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| <p>RELATIONSHIPS WITH OTHER MONUMENTS</p> <p>ASSOCIATED WITH: L178</p> |
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| <p>CONDITION Good</p> |
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| <p>DESCRIPTION</p> <p>1) CONSTRUCTIONAL MATERIAL Breeze Block</p> <p>2) ROOF MATERIALS AND STRUCTURE Flat Concrete slab</p> <p>3) POWER SOURCE Electricity</p> <p>4) DIMENSIONS i) L 3.7 ii) W 2.73 iii) HT 2.2</p> <p>5) This single storey building is rectangular in plan. It has a single door on the eastern elevation and armoured windows on the north and west elevations. The south elevation is featureless.</p> |
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THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

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|--|----------------------------|------------------|--------------------------|
| NUMBER L176 | OLD SERIES 204 | RCHME NUMBER | N.G.R. TL 37734 01024 |
| NAME/FUNCTION Boiler House Store EFDC/Riggers Shop | START DATE 1857 1958 | END DATE 1958 | |



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| <p>CARTOGRAPHIC DEPICTION</p> <p>1861-1868 WASC 900/10A ; 73 1865 WASC 900/13 ; Boiler House 1865 WASC 900/14 ; Boiler House 1865 WASC 900/38 + SUPP5 975 ; Boiler House 1865 WASC 900/41A ; Boiler House 1865 WASC 900/42 1897 WASC 900/53C c1910 WASC 900/65 ; Boiler House c1910 WASC 900/79 ; Boiler House 1917 WASC 900/70 ; Group A Boiler House 1917 WASC 900/72 ; 204 1919 WASC 900/74 ; 204 c1920 WASC 900/80 ; 204 1923 WASC 900/84 ; 204 > 1940 WASC 900/91A ; L176 1954 A - B.34 ; L176 c1960 WASC 900/94 ; L176 c1963 WASC 900/97 ; L176 1972 WASC 900/102 ; L176 1972 WASC 900/104 ; L176 1976 WASC 900/113 ; L176</p> | <p>DOCUMENTARY REFERENCES</p> <p>Plans; L176 B01,B02 ; Plans and Elevations 1902 to 1958</p> <p>1908 RGPF Ledger WASC 1509 + WASC 1764 ; Boiler House c1925 RGPF Ledger WASC 1680 ; Boiler House c1945 RGPF Ledger WASC 1508 ; Boiler House</p> <p>1972 ERDE List ; Store EFDC/Riggers Shop 1991 Mott McDonald survey 1992 RARDE List ; Store EFDC/Riggers Shop</p> <p>1992 FBRC; Storage</p> <p>1993 RCHME NBR No.91452</p> |
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| <p>PHOTOGRAPHY HISTORIC</p> | <p>PHOTOGRAPHY RCHME</p> <p>1) 206/J/16 From South West 206/J/19 North wall from North 206/R/19 From South West 2) BB92/26143 Interior of Boiler house from North BB92/26079 From North West 3) 225/B/22 Interior 225/B/23 Interior 225/B/24 Exterior</p> |
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RELATIONSHIPS WITH OTHER MONUMENTS

ASSOCIATED WITH: L168, L169, L170a ABUTTED BY: L177

CONDITION Good

DESCRIPTION

- 1) CONSTRUCTIONAL MATERIAL
Brick
- 2) ROOF MATERIALS AND STRUCTURE
Slate over Timber Roof Frame
- 3) POWER SOURCE
Formerly Steam , Electricity
- 4) DIMENSIONS i) L 17.6 ii) W 11.0 iii) HT 6.0
- 5) See attached RCHME Threatened Buildings Section report.

ROYAL COMMISSION ON THE HISTORICAL MONUMENTS OF ENGLAND

**MOD Building No. L176
Boiler House
The Royal Gunpowder Factory
Waltham Abbey
Essex**


**NBR No: 91452
NGR: TL 37734 01024**

Built in c1857 as a Boiler House, this building is single-storeyed with a rectangular plan and is constructed of yellow brick laid in English bond. Originally it had a brick chimney attached at its north side.

In 1902 a Dynamo House was added at the centre of the east elevation. In 1903 a Smith's Shop was built in the re-entrant angle on the south side of the Dynamo House, against the east wall of the Boiler House. The latter addition has since been demolished.

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THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

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| NUMBER L177 | OLD SERIES 205 | RCHME NUMBER | N.G.R. TL 37734 01024 |
| NAME/FUNCTION Switch Board House Battery Charge House | | START DATE 1902 1945? | END DATE 1945? |
|  | | | |
| <p>CARTOGRAPHIC DEPICTION</p> <p>c1910 WASC 900/65 ; Switch Board House c1910 WASC 900/79 ; Switch Board House 1917 WASC 900/70 1917 WASC 900/72 ; 205 1919 WASC 900/74 c1920 WASC 900/80 ; 205 1923 WASC 900/84 ; 205 > 1940 WASC 900/91A ; L177 1954 A - B.34 ; L177 c1960 WASC 900/94 ; L177 c1963 WASC 900/97 ; L177 1972 WASC 900/102 ; L177 1972 WASC 900/104 ; L177 1976 WASC 900/113 ; L177</p> | | <p>DOCUMENTARY REFERENCES</p> <p>Plan; L177 B01 - 7/3/1902 ; Dynamo House 1908 RGPF Ledger WASC 1509 + WASC 1764 ; Switch Board House c1925 RGPF Ledger WASC 1680 ; Switch Board House c1945 RGPF Ledger WASC 1508 ; Switch Board House 1972 ERDE List ; Paint Spraying/Barttery Charging 1991 Mott McDonald survey 1992 RARDE List ; Battery Charging House</p> | |
| <p>PHOTOGRAPHY HISTORIC</p> | | <p>PHOTOGRAPHY RCHME 1) 206/J/20 From North 3) 225/B/30 Exterior</p> | |
| <p>RELATIONSHIPS WITH OTHER MONUMENTS</p> <p>ABUTTS:L176</p> | | | |
| <p>CONDITION Good</p> | | | |

DESCRIPTION

1) CONSTRUCTIONAL MATERIAL
Brick

2) ROOF MATERIALS AND STRUCTURE
Slate over timber boards supported purlins on Iron frames with glass roof lights.


3) POWER SOURCE
Steam, Electricity

4) DIMENSIONS i) L 8.1 ii) W 5.2 iii) HT 6.0


5) A date stone on the north elevation reads '1902-3'. The building is a single storey and has a rectangular plan, the roof is a single gable. The building has two windows on the east elevation and two windows and a double door on the northern elevation.

See attached RCHME Threatened Buildings Section report

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

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|---|------------|---|--------------------------|
| NUMBER L178 | OLD SERIES | RCHME NUMBER | N.G.R. TL 37625 01691 |
| NAME/FUNCTION Burning Ground Solvent Store | | START DATE 1963? | END DATE |
|  | | | |
| CARTOGRAPHIC DEPICTION 1972 WASC 900/102 ; L178 1972 WASC 900/104 ; L178 1976 WASC 900/113 ; L178 | | DOCUMENTARY REFERENCES 1972 ERDE List ; Burning Ground Solvent Store 1991 Mott McDonald survey 1992 RARDE List ; Burning Ground Solvent Store | |
| PHOTOGRAPHY HISTORIC | | PHOTOGRAPHY RCHME 1) 206/F/2 From South | |
| RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: L176 | | | |
| CONDITION Good | | | |
| DESCRIPTION 1) CONSTRUCTIONAL MATERIAL Brick 2) ROOF MATERIALS AND STRUCTURE Corrugated Asbestos over wooden frame 4) DIMENSIONS i) L 2.45 ii) W 1.85 iii) HT 2.65 5) The building is single storeyed with a rectangular ground plan, it has gabled ends to the north and south. On the southern elevation is a single metal grill door. | | | |

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

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|---|------------|--|--------------------------|
| NUMBER L179 | OLD SERIES | RCHME NUMBER | N.G.R. TL 37672 01458 |
| NAME/FUNCTION Store | | START DATE 196? | END DATE |
|  | | | |
| CARTOGRAPHIC DEPICTION c1960 WASC 900/94 ; L179 c1963 WASC 900/97 ; L179 1972 WASC 900/102 ; L179 1972 WASC 900/104 ; L179 1976 WASC 900/113 ; L179 | | DOCUMENTARY REFERENCES Plan; L179 B02 - no date ; Building to Convert to Acid Store 1972 ERDE List ; Blacksmith Shop 1991 Mott McDonald survey 1992 RARDE List ; Blacksmiths Shop | |
| PHOTOGRAPHY HISTORIC | | PHOTOGRAPHY RCHME 1) 206/D/36 From East | |
| RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: L134 | | | |
| CONDITION Good | | | |
| DESCRIPTION 1) CONSTRUCTIONAL MATERIAL Corrugated Iron and Fibre Glass 2) ROOF MATERIALS AND STRUCTURE Corrugated Iron 3) POWER SOURCE Electricity 4) DIMENSIONS i) L 3.65 ii) W 3.6 iii) HT 2.3 5) The building is single storeyed with a rectangular ground plan. It is constructed on a timber frame covered by corrugated iron and asbestos. There is a single wooden door on the east side. | | | |

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

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|--|-------------------|--|--------------------------|
| NUMBER L180 | OLD SERIES 208 | RCHME NUMBER | N.G.R. TL 37770 01038 |
| NAME/FUNCTION Pipe Fitters Shop & Store Paint Spraying/Welding Shop | | START DATE 1902 194? | END DATE 194? |
| NO PHOTOGRAPHY AVAILABLE | | | |
| <p>CARTOGRAPHIC DEPICTION</p> <p>c1910 WASC 900/65 ; Pipe Fitters Shop & Store c1910 WASC 900/79 ; Pipe Fitters Shop & Store 1917 WASC 900/70 ; Pipe Fitters Shop & Store 1917 WASC 900/72 ; 208 1919 WASC 900/74 ; 208 c1920 WASC 900/80 ; 208 1923 WASC 900/84 ; 208 > 1940 WASC 900/91A ; L180 1954 A - B.34 ; ; L180 c1960 WASC 900/94 ; L180 c1963 WASC 900/97 ; L180 1972 WASC 900/102 ; L180 1972 WASC 900/104 ; L180 1976 WASC 900/113 ; L180</p> | | <p>DOCUMENTARY REFERENCES</p> <p>Plan; L180 B01 - 18/10/1904 ; Painter shop</p> <p>1908 RGPF Ledger WASC 1509 + WASC 1764 ; Pipe Fitters Shop & Store c1925 RGPF Ledger WASC 1680 ; Pipe Fitters Shop & Store c1945 RGPF Ledger WASC 1508 ; Pipe Fitters Shop & Store</p> <p>1972 ERDE List ; Paint Spraying and Welding Shop 1991 Mott McDonald survey 1992 RARDE List ; Paint Spraying and Welding Shop</p> | |
| PHOTOGRAPHY HISTORIC | | PHOTOGRAPHY RCHME | |
| <p>RELATIONSHIPS WITH OTHER MONUMENTS</p> <p>ASSOCIATED WITH:</p> | | | |
| <p>CONDITION Fair</p> | | | |

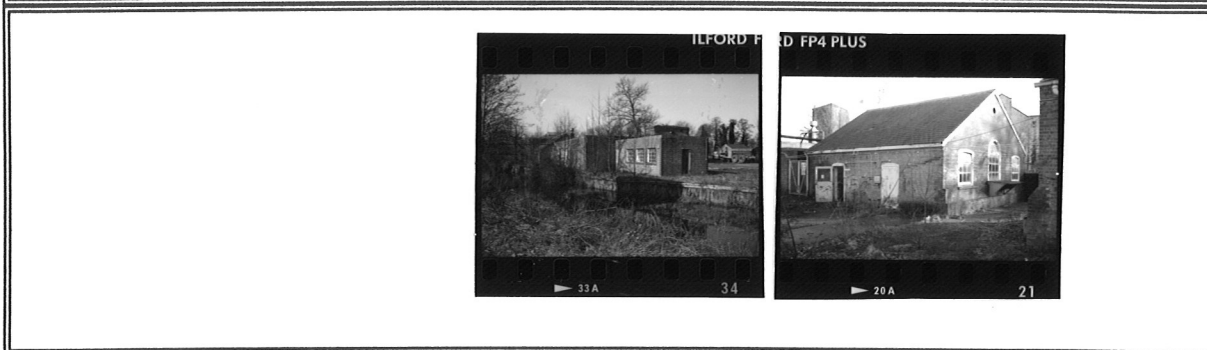
DESCRIPTION

- 1) CONSTRUCTIONAL MATERIAL
Brick
- 2) ROOF MATERIALS AND STRUCTURE
Slate over boards supported on timber purlins.
- 3) POWER SOURCE
Electricity
- 4) DIMENSIONS i) L 10.10 ii) W 10.0 iii) HT 6.0
- 5) The building is single storeyed with a rectangular ground plans, it has gabled ends to the east and west. The northern elevation has two single doors, the southern elevation has single door in the west side is a modern double door. The west and east elevations each have three windows. Internally the building is divided into two rooms.

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

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|----------------|------------|--------------|--------------------------|
| NUMBER L181 | OLD SERIES | RCHME NUMBER | N.G.R. TL 37757 01029 |
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|------------------------------|---------------------|----------|
| NAME/FUNCTION Sub Station | START DATE 1941? | END DATE |
|------------------------------|---------------------|----------|



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| <p>CARTOGRAPHIC DEPICTION</p> <p>c1960 WASC 900/94 ; L181 c1963 WASC 900/97 ; L181 1972 WASC 900/102 ; L181 1972 WASC 900/104 ; L181 1976 WASC 900/113 ; L181</p> | <p>DOCUMENTARY REFERENCES</p> <p>Plans; L181 B01 - B07 ; Plans and Elevations 1941 to 1986</p> <p>1972 ERDE List ; Sub Station 1991 Mott McDonald survey 1992 RARDE List ; Sub Station</p> |
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| <p>PHOTOGRAPHY HISTORIC</p> | <p>PHOTOGRAPHY RCHME 1) 206/R/34 From East</p> |
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| <p>RELATIONSHIPS WITH OTHER MONUMENTS</p> <p>Part OF: L182</p> |
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| <p>CONDITION Fair</p> |
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| <p>DESCRIPTION</p> <p>5) SEE L182</p> |
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THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

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|---|-------------------|---|---------------------------------|
| NUMBER L182 | OLD SERIES | RCHME NUMBER | N.G.R. TL 37770 01038 |
| NAME/FUNCTION Mess Room | | START DATE 1942? | END DATE |
|  | | | |
| CARTOGRAPHIC DEPICTION 1954 A - B.34 ; L182 c1960 WASC 900/94 ; L182 c1963 WASC 900/97 ; L182 1972 WASC 900/102 ; L182 1972 WASC 900/104 ; L182 1976 WASC 900/113 ; L182 | | DOCUMENTARY REFERENCES Plans; L182 B01,B02 ; Plans and Elevations 1942 1972 ERDE List ; BWD 1991 Mott McDonald survey 1992 RARDE List ; Mess Room | |
| PHOTOGRAPHY HISTORIC | | PHOTOGRAPHY RCHME 1) 206/J/22 From South West 206/P/15 From West | |
| RELATIONSHIPS WITH OTHER MONUMENTS CONSISTS OF: L181 | | | |
| CONDITION Fair | | | |
| DESCRIPTION 1) CONSTRUCTIONAL MATERIAL Brick 2) ROOF MATERIALS AND STRUCTURE Flat concrete slab 3) POWER SOURCE Electricity 4) DIMENSIONS i) L 32.5 ii) W 4.7 iii) HT 3.9 5) The building is a single storey with a rectangular ground plan. traces of wavy camouflage paint may be discerned on the exterior of the building. Attached to the east end of the buuilding is L181 the west end was used as a gas bottle store. | | | |

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

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|---|------------|---|--------------------------|
| NUMBER L183 | OLD SERIES | RCHME NUMBER | N.G.R. TL 37760 01112 |
| NAME/FUNCTION Solvent Store | | START DATE 1971? | END DATE |
|  | | | |
| CARTOGRAPHIC DEPICTION 1976 WASC 900/113 ; L183 | | DOCUMENTARY REFERENCES Plan; L183 B01 - 20/11/1971 ; Solvent Store 1991 Mott McDonald survey 1992 RARDE List ; Solvent Store | |
| PHOTOGRAPHY HISTORIC | | PHOTOGRAPHY RCHME 1) 206/J/9 Floor slab from south | |
| RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: | | | |
| CONDITION Demolished | | | |
| DESCRIPTION 1) CONSTRUCTIONAL MATERIAL Brick 3) POWER SOURCE Electricity 4) DIMENSIONS i) L 11.3 ii) W 7.7 5) The building rectangular in plan, was demolished in 1992 a concrete floor slab remains. | | | |

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

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| NUMBER L185 | OLD SERIES | RCHME NUMBER | N.G.R. TL 37600 01334 |
| NAME/FUNCTION Green Hut /Sport & Social Club /Laboratory | | START DATE 1962? | END DATE |
|  | | | |
| CARTOGRAPHIC DEPICTION c1960 WASC 900/94 ; L185 c1963 WASC 900/97 ; L185 1972 WASC 900/102 ; L185 1972 WASC 900/104 ; L185 1976 WASC 900/113 ; L185 | | DOCUMENTARY REFERENCES Plans; L185 B01 - B03 ; Plans and Elevations 1949 to 1954 1972 ERDE List ; Green Hut/Sports and Social Club/Laboratory 1991 Mott McDonald survey 1992 RARDE List ; Green Hut/Sports and Social Club/Laboratory | |
| PHOTOGRAPHY HISTORIC WASC 1453 Main Lab from rear | | PHOTOGRAPHY RCHME 1) 206/F/30 From South East | |
| RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: | | | |
| CONDITION Fair | | | |
| DESCRIPTION 1) CONSTRUCTIONAL MATERIAL Timber frame and Boards 2) ROOF MATERIALS AND STRUCTURE Corrugated Asbestos over timber boards supported by a King post truss with braces. 3) POWER SOURCE Steam Electricity 4) DIMENSIONS i) L 14.8 ii) W 5.97 iii) HT 4.6 5) The building is a single storey, rectangular in plan, with gabled ends to the north and south. It is timber framed and covered by timber boards. On the east elevation are two double and one single windows, to the south is a single window, the west has three double windows a single door and a double door. | | | |

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

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|----------------|------------|--------------|-------------------------|
| NUMBER L186 | OLD SERIES | RCHME NUMBER | N.G.R. TL37620 01345 |
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| NAME/FUNCTION Locker Magazine | START DATE 1950 | END DATE |
|----------------------------------|--------------------|----------|



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| <p>CARTOGRAPHIC DEPICTION</p> <p>1954 A - B.34 ; L186 c1960 WASC 900/94 ; L186 c1963 WASC 900/97 ; L186 1972 WASC 900/102 ; L186 1972 WASC 900/104 ; L186 1976 WASC 900/113 ; L186</p> | <p>DOCUMENTARY REFERENCES</p> <p>1972 ERDE List ; Locker Magazine 1991 Mott McDonald survey 1992 RARDE List ; Locker Magazine</p> |
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| <p>PHOTOGRAPHY HISTORIC</p> | <p>PHOTOGRAPHY RCHME 1) 206/F/31 From South West</p> |
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| <p>RELATIONSHIPS WITH OTHER MONUMENTS</p> <p>ASSOCIATED WITH:</p> |
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| <p>CONDITION ()</p> |
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| <p>DESCRIPTION</p> <ol style="list-style-type: none"> 1) CONSTRUCTIONAL MATERIAL Brick 2) ROOF MATERIALS AND STRUCTURE Corrugated Asbestos over timber 3) POWER SOURCE Electricity 4) DIMENSIONS i) L 13.4 ii) W 2.6 iii) HT 2.9 5) The locker magazine is a single storey building, rectangular in plan with gabled ends north and south. There are two doors on the west elevation. Within the building are six explosive lockers on the west side. it is thought that the magazine was last used in 1982. The building is earthed by a copper strip attached to the walls. |
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THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

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|--|------------|--|--------------------------|
| NUMBER L187 | OLD SERIES | RCHME NUMBER | N.G.R. TL 37738 01197 |
| NAME/FUNCTION Locker Magazine | | START DATE 1950 | END DATE 1982? |
| NO PHOTOGRAPHY AVAILABLE | | | |
| <p>CARTOGRAPHIC DEPICTION</p> <p>1954 A - B.34 ; L187 c1960 WASC 900/94 ; L187 c1963 WASC 900/97 ; L187 1972 WASC 900/102 ; L187 1972 WASC 900/104 ; L187 1976 WASC 900/113 ; L187</p> | | <p>DOCUMENTARY REFERENCES</p> <p>1972 ERDE List ; Locker Magazine 1991 Mott McDonald survey 1992 RARDE List ; Locker Magazine</p> | |
| <p>PHOTOGRAPHY HISTORIC</p> | | <p>PHOTOGRAPHY RCHME</p> | |
| <p>RELATIONSHIPS WITH OTHER MONUMENTS</p> <p>L157, L156, L158, L174</p> | | | |
| <p>CONDITION Demolished</p> | | | |
| <p>DESCRIPTION</p> <p>1) CONSTRUCTIONAL MATERIAL Brick</p> <p>4) DIMENSIONS i) L 11.5 ii) W 3.0</p> <p>5) Building demolished concrete slab remains.</p> | | | |

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

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|----------------|------------|--------------|--------------------------|
| NUMBER L188 | OLD SERIES | RCHME NUMBER | N.G.R. TL 37750 01327 |
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|----------------------------------|--------------------|----------|
| NAME/FUNCTION Locker Magazine | START DATE 1950 | END DATE |
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| <p>CARTOGRAPHIC DEPICTION</p> <p>1954 A - B.34 ; L188 c1960 WASC 900/94 ; L188 c1963 WASC 900/97 ; L188 1972 WASC 900/102 ; L188 1972 WASC 900/104 ; L188 1976 WASC 900/113 ; L188</p> | <p>DOCUMENTARY REFERENCES</p> <p>1972 ERDE List ; Locker Magazine 1991 Mott McDonald survey 1992 RARDE List ; Locker Magazine</p> |
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| <p>PHOTOGRAPHY HISTORIC</p> | <p>PHOTOGRAPHY RCHME 1) 206/G/34 From South West</p> |
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RELATIONSHIPS WITH OTHER MONUMENTS


ASSOCIATED WITH: L192, L149?

CONDITION Good

DESCRIPTION

- 1) **CONSTRUCTIONAL MATERIAL**
Brick in English bond
- 2) **ROOF MATERIALS AND STRUCTURE**
Corrugated Asbestos
- 3) **POWER SOURCE**
Steam Electricity
- 4) **DIMENSIONS** i) L 13.45 ii) W 2.6 iii) HT Gable 2.9
- 5) The building is single storeyed with arectangular ground plan and gabled ends north and south. It has has two red doors on the south elevation. Internally are six metal lockers numbered '21-26', the temperature within the building was maintained by steam and electric heating. On the exterior a lightning conductor is connected to an earth point.

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|---|------------|--|--------------------------|
| NUMBER L189 | OLD SERIES | RCHME NUMBER | N.G.R. TL 37655 01550 |
| NAME/FUNCTION Proof Stand | | START DATE 1953-4 | END DATE 198? |
|  | | | |
| CARTOGRAPHIC DEPICTION 1954 A - B.34 ; L189 c1960 WASC 900/94 ; L189 c1963 WASC 900/97 ; L189 1972 WASC 900/102 ; L189 1972 WASC 900/104 ; L189 1976 WASC 900/113 ; L189 | | DOCUMENTARY REFERENCES Plans; L189 B01 - B38 ; Plans and Elevations 1954 to 1976 1972 ERDE List ; Sensitivity 1991 Mott McDonald survey 1992 RARDE List ; Proof Stand | |
| PHOTOGRAPHY HISTORIC WASC 1795/1-4 Firing point & damage to roof vents 5-Aug-1955 | | PHOTOGRAPHY RCHME 1) 206/B/35 Firing point from South 206/L/11 From North West 2) BB92/26131 firing point from East BB92/26132 Interior firing point from South East BB92/26133 Observation chamber West of Firing point from South East | |
| RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: L195, L199 | | | |
| CONDITION Fair | | | |

DESCRIPTION

- 1) CONSTRUCTIONAL MATERIAL
Breeze blocks, concrete, steel piles, armour plate, earth
- 2) ROOF MATERIALS AND STRUCTURE
Concrete, armour plate
- 3) POWER SOURCE
Electricity
- 5) The proof stand comprises of a number of separate features grouped around a central firing point enclosed within an earthwork traverse.

Separated from the proof stand to the west is a single storey building with a square ground plan 3.66m x 3.66m, 2.7m in height constructed in concrete. This building was entered through a single steel door on the west side. Within the room a sign reads 'L189 Firing Point Charge limit 5lbs Torpex'. The interior has largely been stripped out although a few wires and gauges remain.


Opposite to this building is the entrance to a chamber built into the earthen mound adjacent to the firing chamber. Within the west wall is an armoured glass window and below a small hole through which a control wire could pass. Although the room has largely been stripped out a few gauges and electrical fittings remain. There is a similar chamber on the west side that was used for the taking of photographs of experiments within the chamber. This chamber has an armoured glass window on its east side and a small hole for a control wire. Within the chamber is a teak topped bench and locker.

The central chamber is entered along a staggered passage way lined with steel piles from the north. The firing chamber is constructed from steel girders and is lined with armoured plates, the roof is also of armoured plate. It is rectangular in plan 5.45m x 4.5m. The plates within the chamber exhibit many signs of repair. To the east and west small control wire holes lead to the chambers described above, above these holes are removable armoured plated to protect the observation windows.

On the south wall of the firing chamber a steel firing tube, bore 10cm, connects to a small additional room on the south side of the mound. This chamber is roughly built from breeze block and is connected to the mound by wing walls of cement filled sandbags. It is roofed by a scaffold frame covered by tarpaulins. There are blast scars on the breeze block wall south of the exit from the firing tube. Warnings of test firings was given by klaxons on the east side of the mound.

Historic artefacts - gauges, klaxons, electrical objects fittings

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

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|---|-------------------|--|---------------------------------|
| NUMBER L190a,b | OLD SERIES | RCHME NUMBER | N.G.R. TL 37555 01425 |
| NAME/FUNCTION Climatic Cubicles Cells A & B | | START DATE 1951 | END DATE 198? |
|  | | | |
| CARTOGRAPHIC DEPICTION | | DOCUMENTARY REFERENCES | |
| c1960 WASC 900/94 ; L190 c1963 WASC 900/97 ; L190 1972 WASC 900/102 ; L190 1972 WASC 900/104 ; L190 1976 WASC 900/113 ; L190 | | Plans; L190 B01 - B08 ; Plans and Elevations 1951-7 1972 ERDE List ; Climatic Cubicles 1991 Mott McDonald survey 1992 RARDE List ; Climatic Cubicles 1992 FBRC ; Class 1 Explosives | |
| PHOTOGRAPHY HISTORIC | | PHOTOGRAPHY RCHME | |
| | | 1) 206/C/7 From South East 206/C/8 From South East 206/C/9 From South West 2) BB92/26203 From South East BB92/26204 From North | |
| RELATIONSHIPS WITH OTHER MONUMENTS | | | |
| ASSOCIATED WITH: | | | |
| CONDITION Good | | | |

DESCRIPTION

1) CONSTRUCTIONAL MATERIAL
Brick with reinforced concrete pillars

2) ROOF MATERIALS AND STRUCTURE
Corrugated Asbestos on concrete rafters

3) POWER SOURCE
Electricity

4) DIMENSIONS See below

5) The structure comprises of three separate buildings a central control room and two identical cubicle buildings.

The control room is a single storey building built of brick between the cubicles at their southern end. It is square in plan 4.1m x 4.1m, its height is 2.5m. On the south and north elevations are a single metal framed windows. On the west elevation are two metal framed windows, on the east elevation is a single door and window. An overhead wire insulator attached to the building is dated 1963.

North of the control room are the climatic cubicles separated by a narrow central courtyard. The buildings are a mirror image of one another, only the eastern cubicles L190a are described below. The western cubicles are numbered L190b.

The cubicles are a single storey structure with rectangular ground plan. They have gabled ends to the north and south with a central raised clerestory roof vent. The building has a reinforced concrete prefabricated structure of side pillars and roof supports. The end gable walls and parts of the sides are infilled by brick. Access to the cubicles is along a corridor to either side. The cubicles are brick built, they are numbered 1-8 along the east side and 9-14 along the west side.

The building is protected by a lightning conductor.

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

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|----------------|------------|--------------|--------------------------|
| NUMBER L191 | OLD SERIES | RCHME NUMBER | N.G.R. TL 37640 01348 |
|----------------|------------|--------------|--------------------------|

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|--|-------------------------|----------|
| NAME/FUNCTION Stability Test Laboratory | START DATE 1949-1952 | END DATE |
|--|-------------------------|----------|



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| <p>CARTOGRAPHIC DEPICTION</p> <p>c1960 WASC 900/94 ; L191 c1963 WASC 900/97 ; L191 1972 WASC 900/102 ; L191 1972 WASC 900/104 ; L191 1976 WASC 900/113 ; L191</p> | <p>DOCUMENTARY REFERENCES</p> <p>Plans; L191 B01 - B13 ; Plans and Elevations 1949 to 1983</p> <p>1972 ERDE List ; Stability Test Laboratory 1991 Mott McDonald survey 1992 RARDE List ; Stability Test Laboratory</p> <p>1992 FBRC ; Ovens and Laboratory for Explosives</p> |
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| <p>PHOTOGRAPHY HISTORIC</p> | <p>PHOTOGRAPHY RCHME 1) 206/F/29 From South West</p> |
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| <p>RELATIONSHIPS WITH OTHER MONUMENTS</p> <p>ASSOCIATED WITH: L198</p> |
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| <p>CONDITION Good</p> |
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| <p>DESCRIPTION</p> <ol style="list-style-type: none"> 1) CONSTRUCTIONAL MATERIAL Brick 2) ROOF MATERIALS AND STRUCTURE Flat concrete slab with felt covering 3) POWER SOURCE Steam Electricity 4) DIMENSIONS i) L 11.0 ii) W 6.65 iii) HT 3.3 5) The building is single storeyed with a rectangular ground plan. On the east and west elevations are a single door and two metal framed windows and on the north elevation are three metal framed windows. On the south elevation are two single doors and access into a heating maintainance chamber. A lightning conductor is attached to the building. |
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THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

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|---|------------|---|--------------------------|
| NUMBER L192 | OLD SERIES | RCHME NUMBER | N.G.R. TL 37752 01345 |
| NAME/FUNCTION Locker Magazine | | START DATE 1954 | END DATE |
|  | | | |
| CARTOGRAPHIC DEPICTION c1960 WASC 900/94 ; L192 c1963 WASC 900/97 ; L192 1972 WASC 900/102 ; L192 1972 WASC 900/104 ; L192 1976 WASC 900/113 ; L192 | | DOCUMENTARY REFERENCES Plans; L192 B01 - B03 ; Plans and Elevations 1954 to 1983 1972 ERDE List ; Locker Magazine 1991 Mott McDonald survey 1992 RARDE List ; Locker Magazine 1992 FBRC ; Class 1 Explosives | |
| PHOTOGRAPHY HISTORIC | | PHOTOGRAPHY RCHME 1) 206/G/33 From South East | |
| RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: L188, L146? | | | |
| CONDITION Good | | | |
| DESCRIPTION 1) CONSTRUCTIONAL MATERIAL Brick in English bond 2) ROOF MATERIALS AND STRUCTURE Corrugated Asbestos 3) POWER SOURCE Steam Electricity 4) DIMENSIONS i) L 13.43 ii) W 2.6 iii) HT Gable 2.9 5) The locker magazine is a single storey building rectangular in plan with gabled ends west and east. The magazine is entered through two red painted doors on the south elevation. Internally are five metal lockers numbered '7-12', each locker is earthed. A wooden shelf runs along the North wall. The temperature in the magazine was maintained by steam and electric heating. | | | |

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

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|---|------------|---|--------------------------|
| NUMBER L193 | OLD SERIES | RCHME NUMBER | N.G.R. TL 37782 01235 |
| NAME/FUNCTION Locker Magazine | | START DATE 1954 | END DATE |
|  | | | |
| CARTOGRAPHIC DEPICTION c1960 WASC 900/94 ; L193 c1963 WASC 900/97 ; L193 1972 WASC 900/102 ; L193 1972 WASC 900/104 ; L193 1976 WASC 900/113 ; L193 | | DOCUMENTARY REFERENCES Plan; L193 B01 - 24/8/1983 ; Electrical Heating Layout 1972 ERDE List ; Locker Magazine 1991 Mott McDonald survey 1992 RARDE List ; Locker Magazine | |
| PHOTOGRAPHY HISTORIC | | PHOTOGRAPHY RCHME 1) 206/G/27 From South | |
| RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: L151, L152 | | | |
| CONDITION Good | | | |
| DESCRIPTION 1) CONSTRUCTIONAL MATERIAL Brick 2) ROOF MATERIALS AND STRUCTURE Corrugated Asbestos 3) POWER SOURCE Steam Electricity 4) DIMENSIONS i) L 8.32 ii) W 2.59 iii) HT 3.0 5) The magazine is single storeyed and is rectangular in plan. It has gabled ends north and south. It was entered through two doors on the west side. Internally are three metal explosive lockers numbered '28A-C'. There is a wooden shelf along the east wall and below this heating pipes. | | | |

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

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|--|-------------------|---|---------------------------------|
| NUMBER L194 | OLD SERIES | RCHME NUMBER | N.G.R. TL 37705 01420 |
| NAME/FUNCTION Locker magazine Chemical Store | | START DATE 1954 | END DATE 198? |
|  | | | |
| CARTOGRAPHIC DEPICTION | | DOCUMENTARY REFERENCES | |
| c1960 WASC 900/94 ; L194 c1963 WASC 900/97 ; L194 1972 WASC 900/102 ; L194 1972 WASC 900/104 ; L194 1976 WASC 900/113 ; L194 | | 1972 ERDE List ; Locker Magazine 1991 Mott McDonald survey 1992 RARDE List ; Chemical Store 1992 FBRC ; Chemical Store | |
| PHOTOGRAPHY HISTORIC | | PHOTOGRAPHY RCHME 1) 206/G/37 From South West | |
| RELATIONSHIPS WITH OTHER MONUMENTS | | | |
| ASSOCIATED WITH: L134, L137, L166 | | | |
| CONDITION Fair | | | |
| DESCRIPTION | | | |
| 1) CONSTRUCTIONAL MATERIAL Brick 2) ROOF MATERIALS AND STRUCTURE Corrugated Asbestos and Translucent Plastic 3) POWER SOURCE Steam Electricity 4) DIMENSIONS i) L 8.33 ii) W 2.6 iii) HT Gable 2.85 5) The building is single storeyed with a rectangular ground plan, it has gabled ends north and south. The magazine was entered through two doors to the west. The conversion of the magazine into a store has entailed the removal of the metal lockers and the insertion of a number of translucent roof panels. | | | |

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

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|----------------|------------|--------------|--------------------------|
| NUMBER L195 | OLD SERIES | RCHME NUMBER | N.G.R. TL 37670 01550 |
|----------------|------------|--------------|--------------------------|

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|----------------------------------|--------------------|------------------|
| NAME/FUNCTION Locker Magazine | START DATE 1955 | END DATE 198? |
|----------------------------------|--------------------|------------------|



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| <p>CARTOGRAPHIC DEPICTION</p> <p>c1960 WASC 900/94 ; L195 c1963 WASC 900/97 ; L195 1972 WASC 900/102 ; L195 1972 WASC 900/104 ; L195 1976 WASC 900/113 ; L195</p> | <p>DOCUMENTARY REFERENCES</p> <p>Plan; L195 B01 - 9/8/1955 ; New single Locker Magazine</p> <p>1972 ERDE List ; Locker Magazine 1991 Mott McDonald survey 1992 RARDE List ; Locker Magazine</p> |
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| <p>PHOTOGRAPHY HISTORIC</p> | <p>PHOTOGRAPHY RCHME 1) 206/B/35 From South East</p> |
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RELATIONSHIPS WITH OTHER MONUMENTS

ASSOCIATED WITH: L185


CONDITION Fair

DESCRIPTION

- 1) **CONSTRUCTIONAL MATERIAL**
Brick
- 2) **ROOF MATERIALS AND STRUCTURE**
To the North Corrugated Plastic, to the South Corrugated Asbestos
- 3) **POWER SOURCE**
Electricity
- 4) **DIMENSIONS** i) L 4.95 ii) W 3.85 iii) HT 2.7
- 5) The magazine is a single storey building with a rectangular ground plan, it has gabled ends east and west. On the eastern elevation is a double louvred door providing access to the southern room. A door on the north wall provides access onto the north room a sign on the door reads 'Explosives Locker'.

The magazine served firing point L189.


THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

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|---|------------|--|--------------------------|
| NUMBER L196 | OLD SERIES | RCHME NUMBER | N.G.R. TL 37589 01389 |
| NAME/FUNCTION Acid Store/ Locker Magazine | | START DATE 1954 | END DATE 198? |
|  | | | |
| CARTOGRAPHIC DEPICTION c1960 WASC 900/94 ; L196 c1963 WASC 900/97 ; L196 1972 WASC 900/102 ; L196 1972 WASC 900/104 ; L196 1976 WASC 900/113 ; L196 | | DOCUMENTARY REFERENCES Plan; L196 B01 - 24/12/1954 ; Acid Store for Main Laboratory 1972 ERDE List ; Acid Store 1991 Mott McDonald survey 1992 RARDE List ; Locker Magazine | |
| PHOTOGRAPHY HISTORIC | | PHOTOGRAPHY RCHME 1) 206/C/1 From South West | |
| RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: L122 | | | |
| CONDITION Good | | | |
| DESCRIPTION 1) CONSTRUCTIONAL MATERIAL Brick in English bond 2) ROOF MATERIALS AND STRUCTURE Concrete slab 3) POWER SOURCE Electricity 4) DIMENSIONS i) L 2.75 ii) W 2.44 iii) HT 2.55 5) The magazine is a single storeyed and almost square in plan. It was entered from a single door on the west side, there is a single small window on the north elevation. Internally are concrete shelves the floor is tiled. | | | |

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

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|--|-----------------|--|--------------------------|
| NUMBER L197 | OLD SERIES 9 | RCHME NUMBER | N.G.R. TL 37833 01186 |
| NAME/FUNCTION Store /Air Raid Shelter | | START DATE 1942? | END DATE 198? |
| NO PHOTOGRAPHY AVAILABLE | | | |
| CARTOGRAPHIC DEPICTION > 1940 WASC 900/91A ; L197 1954 A - B.34 ; L197 c1960 WASC 900/94 ; L197 c1963 WASC 900/97 ; L197 1972 WASC 900/102 ; L197 1972 WASC 900/104 ; L197 1976 WASC 900/113 ; L197 | | DOCUMENTARY REFERENCES Plan; L197 B01 - 11/12/47 ; Pipe Trench & Drainage 1972 ERDE List ; Store/Air Raid Shelter semi cylindrical 1991 Mott McDonald survey 1992 RARDE List ; Store/Air Raid Shelter semi cylindrical | |
| PHOTOGRAPHY HISTORIC | | PHOTOGRAPHY RCHME | |
| RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: | | | |
| CONDITION Demolished | | | |
| DESCRIPTION 1) CONSTRUCTIONAL MATERIAL Concrete 3) POWER SOURCE Electricity 4) DIMENSIONS i) L 9.12 ii) W 3.8 5) The building has been demolished a concrete floor slab remains. | | | |

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

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|---|------------|--|--------------------------|
| NUMBER L198 | OLD SERIES | RCHME NUMBER | N.G.R. TL 37644 01334 |
| NAME/FUNCTION Stability Laboratory | | START DATE 1956 | END DATE 198? |
|  | | | |
| CARTOGRAPHIC DEPICTION c1960 WASC 900/94 ; L198 c1963 WASC 900/97 ; L198 1972 WASC 900/102 ; L198 1972 WASC 900/104 ; L198 1976 WASC 900/113 ; L198 | | DOCUMENTARY REFERENCES Plans; L198 B01 - B17 ; Plans and Elevations 1956 to 1982 1972 ERDE List ; Laboratory 1991 Mott McDonald survey 1992 RARDE List ; Laboratory 1992 FBRC ; Class 1 Explosives | |
| PHOTOGRAPHY HISTORIC | | PHOTOGRAPHY RCHME 1) 206/F/28 From South West | |
| RELATIONSHIPS WITH OTHER MONUMENTS ASSOCIATED WITH: L191 | | | |
| CONDITION Good | | | |
| DESCRIPTION 1) CONSTRUCTIONAL MATERIAL Brick 2) ROOF MATERIALS AND STRUCTURE Flat concrete with felt covering and raised roof lights 3) POWER SOURCE Steam Electricity 4) DIMENSIONS i) L 9.2 ii) W 10.7 iii) HT 2.95 5) The building is a single storey with a rectangular plan. The east and west elevations of the building are featureless in the north elevation is a single door. To the south are double glass doors giving access into a central court surrounded by laboratory benches lit by raised roof lights. Attached to the east and west walls of the building are two tall poles of a lightning conductor connected by wire at their tops. | | | |

THE ROYAL GUNPOWDER FACTORY - WALTHAM ABBEY

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|----------------|------------|--------------|--------------------------|
| NUMBER L199 | OLD SERIES | RCHME NUMBER | N.G.R. TL 37664 01592 |
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|------------------------------|--------------------|------------------|
| NAME/FUNCTION Proof Stand | START DATE 1959 | END DATE 198? |
|------------------------------|--------------------|------------------|



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| <p>CARTOGRAPHIC DEPICTION</p> <p>c1960 WASC 900/94 ; L199 c1963 WASC 900/97 ; L199 1972 WASC 900/102 ; L199 1972 WASC 900/104 ; L199 1976 WASC 900/113 ; L199</p> | <p>DOCUMENTARY REFERENCES</p> <p>Plans; L199 B01 - B10 ; Plans and Elevations 1956 to 1975</p> <p>1972 ERDE List ; Small Sensitivity 1991 Mott McDonald survey 1992 RARDE List ; Proof Stand</p> <p>1992 FBRC ; Firing Chamber</p> |
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| <p>PHOTOGRAPHY HISTORIC</p> | <p>PHOTOGRAPHY RCHME 1)206/L/12 From South</p> |
|--|---|

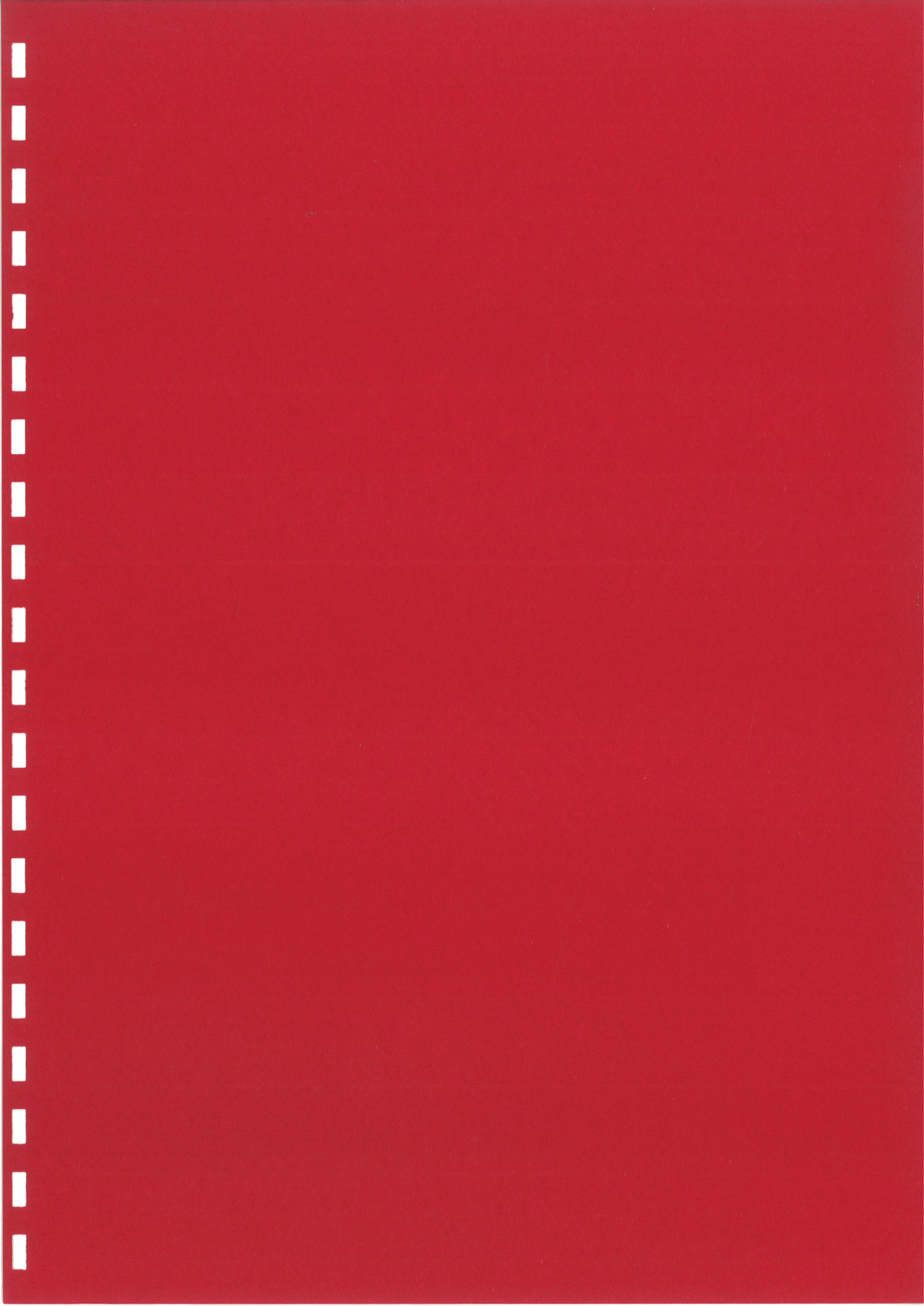
RELATIONSHIPS WITH OTHER MONUMENTS

ASSOCIATED WITH: L189, L195

CONDITION Fair

DESCRIPTION

- 1) **CONSTRUCTIONAL MATERIAL**
Concrete, steel girders, corrugated iron
- 2) **ROOF MATERIALS AND STRUCTURE**
-
- 3) **POWER SOURCE**
Electricity
- 4) **DIMENSIONS** i) L ii) W iii) HT
- 5) The proof stand is a single storeyed structure almost square in plan although with protruding walls. The southern elevation of the stand is of concrete and has a single staggered entrance. The central firing chamber is a constructed from steel girders and plates and corrugated iron.





ROYAL COMMISSION ON THE HISTORICAL MONUMENTS OF ENGLAND

MOD Building No. L176
Boiler House
The Royal Gunpowder Factory
Waltham Abbey
Essex

NBR No: 91452
NGR: TL 37734 01024

Built in c1857 as a Boiler House for the earliest of the incorporating mills buildings (L168) on the Gunpowder Factory site, this building is single-storeyed with a rectangular plan and is constructed of yellow brick laid in English bond. Originally it had a brick chimney attached at its north side.

In 1902 a Dynamo House was added at the centre of the east elevation. In 1903 a Smith's Shop was built in the re-entrant angle on the south side of the Dynamo House, against the east wall of the Boiler House. The latter addition has since been demolished.

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Building L168 was built in c1857 as a Boiler House.¹ It is situated approximately 10 metres north of the western fork of the main canal and approximately 15 metres south of a contemporary Engine House and Mechanics Shop building (no. L168).² In conjunction with the latter building, it powered Group A Incorporating Mills (L176, now demolished) which adjoined the east side of L168.

It has a rectangular plan, of six bays by three bays³ (17.6 x 11 m), which is aligned north to south.⁴ It is single-storeyed and rises to height of approximately six metres.

¹ Although the building is shown on a map of 1821, it is likely that such a representation is part of an updating of the map in the 1850s-60s, "A Survey of the Lands and Buildings, the Property of the Ordnance, at the Royal Powder Works, Waltham Abbey, made in compliance with the Master General and Boards Order 6th June 1821" (PRO, Hayes Repository). A drawing of the plan has alterations which are dated 1856 and 1857 (PRO, Hayes Repository). The Ledger of c1908 dates the building to 1857, cat. WASC 1509 (PRO, Hayes Repository)

² Ledger c1908, cat. WASC 1509 (PRO, Hayes Repository).

³ The bays are described with reference to the number of windows (ie six by three), although pilasters divide the sides into three main bays by a single main bay.

⁴ The building is aligned north-north-west to south-south-east but for the clarity of this report it is described as if it was aligned north to south.

Originally it had an octagonal chimney on its north side and a coal yard on the east side.

Constructed of yellow brick laid in English bond, the building has a chamfered brick plinth and a brick dentil cornice. There are brick pilasters at the corners of the building on each side as well as an evenly-spaced pair of pilasters on each of the west and east elevations. The windows have cambered heads of rubbed red-brick. Originally the windows were sash and each had a rectangular blind panel below.⁵ There were three windows on the north elevation and windows flanking a central door on the south elevation. In pairs between the pilasters, there are six windows on the west elevation and six blind windows on the east elevation. The blind windows on the north side appear to be an original feature, as they are shown as such in a drawing of the building of 1856-7.⁶

The floor was of stone.⁷ The roof truss is of iron and incorporates decorative cast iron compression members. The roof is hipped and has slate coverings and a central skylight. The chimney was brick-built.

In 1902 new boilers were installed in building no. L176 and a Dynamo House with a lean-to roof was built at the centre of the east elevation.⁸ Constructed of brick, with a concrete floor and slate roof, it had two dynamos and an accumulator shelf. Also known as the Switchboard House, this addition points to a change in the building from steam power to electric power at this time and may coincide with a conversion in building no. L169 from gunpowder incorporating to cordite reeling.⁹

⁵ Undated elevation drawing, cat. LE179/1 (PRO, Hayes Repository).

⁶ Drawing of plan with alterations dated 1856 and 1857 (PRO, Hayes Repository).

⁷ Ledger c1908, cat. WASC 1509 (PRO, Hayes Repository).

⁸ Uncatalogued ink drawing showing Dynamo House and seating plan for new boilers (with a pit to suit footplates) Group A, (?old cat. no. 827), and Ledger c1908, cat. WASC 1509 (PRO, Hayes Repository).

⁹ In the OS County Series 1:2500 maps, 2nd ed. 1897 (surveyed 1865, revised 1895), sheet refs XLIX.14, XLI.8.12, XLII.5.9) Building L169 is labelled as Reeling Houses Group A.

In the following year, 1903, a Smith's Shop was built in the south-east angle between the Boiler House and Dynamo House.¹⁰ Of a similar size as the Dynamo House, it also had a lean-to roof and was constructed of brick, with a concrete floor and corrugated iron roof.

The building has undergone several other alterations. The windows on the west elevation were enlarged by replacing the sashes with taller windows which extend to incorporate the former blind rectangular panels below. One of the blind windows on the east elevation was opened up and the open windows on the north elevation were made blind. A wide doorway was inserted at the centre of the north elevation. The Smith's Shop has been demolished some time after 1923.¹¹ By 1958 the Boiler House was used as a Store and a Riggers Shop.

Surveyed March 1993
Report by R L Burgess

¹⁰ Ledger c1908, cat. WASC 1509 (PRO, Hayes Repository).

¹¹ The building is shown as the Smith's Shop in a 1:2500 site plan of the Royal Gunpowder Factory at Waltham Abbey, revised March 1923, cat. WASC 900/84.

