

MINISTRY OF DEFENCE (PROCUREMENT EXECUTIVE) - EXPLOSIVES LIMITS

PROPERLY EXPLODED
AND ICER(PE)71... OR LST.
(Revised 12/78)
(Replacing Gen Form 49)
WALTHAM ABBEY
BRX

EXPLANATORY NOTES -

- i. Both the maximum permitted Man Limit (M) and the number normally present (N) are required.
- ii. State quantity of explosive in each Hazard Division.
- iii. The perimeter fence marks the boundary of the Establishment. It is not necessarily the "Danger Building" Fence.
- iv. An occupied building is one that is normally occupied during working hours, as distinct from one occasionally visited.
- v. The detail of buildings and distances shown below should be checked to ensure no change has taken place before requesting an extension to the period covered by existing relaxation.

Establishment - PERME WALTHAM ABBEY				Building No. G 430 (If grouped with other rooms or buildings, give details)	
Use	Protective State - Traversed (T) or Untraversed (U) - State type of Traverse, and construction of building, walls and roof	Hazard Divisions	Compatibility Groups	PROPOSED	
				Man Limit M&N (Note i)	Explosive Limit (Note ii) (Kgs)
Temporary use for rewinding case of 1 filled Oystercatcher rocket motor	U Brick, Slate roof	1.3	C	M3	25

If this is to replace an existing limit, please state date present limit approved.

Explanatory notes	Factor influencing Explosives limit	Distance in Metres	Number and use of building	T or U	Workers present M & N	For C.S.O. use
	1	2	3	4	5	6
iii	Inside Perimeter Fence A. Nearest Explosives Storage Unit (a) traversed (b) untraversed	73 195	G433 Locker Mag. N532 Explosive Storehouse	U T	M2 N0 M3 N0	
iv	B. Main Office	25	N509 Canteen	U	N6	
iv	C. Main Engineering Workshop	22	G431 Stores	U	N20	
	D. Nearest Explosives Process Building (a) traversed and (b) untraversed	22	G432 Labs & Offices	U	N27	
iv)	E. Give numbers of all occupied non-explosive buildings within the OQD and give details at 1 overleaf	60	G418 N506 N505			
	Outside Perimeter Fence F. Nearest building (dwelling house, church, etc.)	135	Industrial Estate			
	G. Nearest road, railway, canal, river.	85 > 400	Motorway under construction A112			

Date 1st July 1982 Signature AT/Seb Head of Establishment

Unrelaxed Explosive Limits (leave blank for CSO's use)

Date Chief Safety Officer

See overleaf for relaxations (where appropriate)

1. Details of Buildings shown at E overleaf. (A sketch of the area should be attached)

Building No.	Use	Distance in metres	T or U	Workers present M & N	Remarks	Leave this column for C.S.O.
G418	Non-explosive processing (Flammable solvents may be in use).	25	U	N 20		
N506	Offices and Labs, associated with G430	20	U	N 6		
N505	Telephone exchange, typing pool and offices	27	U	N 15		

2. Brief reference to any factors influencing the relaxation such as special procedures or written instructions that counter the additional potential hazard of the building:-

Temporary licence required for rewinding filament reinforcing on 1 filled Oystercatcher motor. Restrictions to be imposed - 1) No igniter fitted. 2) Only those directly concerned will be in building. 3) No rewinding during meal breaks. (N509 then occupied by other than Canteen staff).

3.

Is the fire cover in accordance with the recommended Establishment Fire Risk Classification?	NO
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4. Relaxation approved

Hazard Division	Limit (Kgs)	Period		Signature
		From	To	
	LIMIT AS PROPOSED.	12-4-83	29-4-83	Chief Safety Officer <u>N. Kumar</u> Date <u>12-APRIL 83</u>

Relaxation Extended (See Note v).

Hazard Division	Limit (Kgs)	Period		Signature
		From	To	
				Chief Safety Officer _____ Date _____

EXPLANATORY NOTES -

- i. Both the maximum permitted Man Limit (M) and the number normally present (N) are required.
- ii. State quantity of explosive in each Hazard Division.
- iii. The perimeter fence marks the boundary of the Establishment. It is not necessarily the "Danger Building" Fence.
- iv. An occupied building is one that is normally occupied during working hours, as distinct from one occasionally visited.
- v. The detail of buildings and distances shown below should be checked to ensure no change has taken place before requesting an extension to the period covered by existing relaxation.

Establishment -		PERME, WALTHAM ABBEY ESSEX EN9 1BP		Building No. G432 (If grouped with other rooms or buildings, give details)	
Use	Protective State - Traversed (T) or Untraversed (U) - State type of Traverse, and construction of building, walls and roof	Hazard Divisions	Compatibility Groups	PROPOSED	
				Man Limit M&N (Note i)	Explosive Limit (Note ii) (Kgs)
Process Research Laboratories	U. 9" Brick wall 6" R.C roof	1.1	D	M30 N27 (8 top floor)	250g

If this is to replace an existing limit, please state date present limit approved.

Explanatory notes,	Factor influencing Explosives limit 1	Distance in Metres 2	Number and use of building 3	T or U 4	Workers present M & N 5	For C.S.O. use 6
iii	Inside Perimeter Fence A. Nearest Explosives Storage Unit (a) traversed (b) untraversed	8 140	G433 Locker Magazine N532 Explosives Storehouse	U T	M2 NO M3 NO	
iv	B. Main Office	18	- Proposed Offices	U	N16	
iv	C. Main Engineering Workshop	150	G408 Building Workshops	U	N20	
	D. Nearest Explosives Process Building (a) traversed and (b) untraversed	195 50	N536 Process Research Proposed Compatibility & Stability Facility	T U	M3 N2 M4 N2	
iv)	E. Give numbers of all occupied non-explosive buildings within the OQD and give details at 1 overleaf	-				
	Outside Perimeter Fence F. Nearest building (dwelling house, church, etc.)	135 400	Industrial Estate Beechfield Walk Estate			
	G. Nearest road, railway, canal, river.	325 90	A112 Proposed M25			

Date 16 February 1981 Signature B.H. Newman Head of Establishment

Unrelaxed Explosive Limits (leave blank for CSO's use)

H.D. (1.1) - 250gms distributed as listed.

Date 23-3-81 Chief Safety Officer N. J. Reeves

See overleaf for relaxations (where appropriate)

1. Details of Buildings shown at E overleaf. (A sketch of the area should be attached)

Building No.	Use	Distance in metres	T or U	Workers present M & N	Remarks	Leave this column for C.S.O.

2. Brief reference to any factors influencing the relaxation such as special procedures or written instructions that counter the additional potential hazard of the building:-

4 Laboratories with individual lower limits

3.	Is the fire cover in accordance with the recommended Establishment Fire Risk Classification?	Yes
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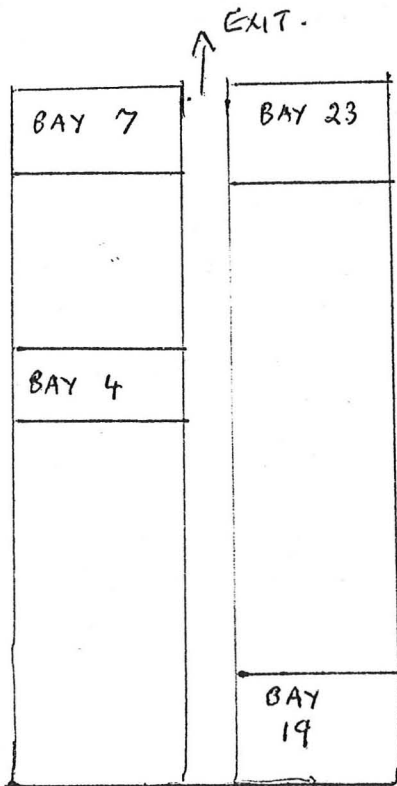
4. Relaxation approved

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

Relaxation Extended (See Note v).

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

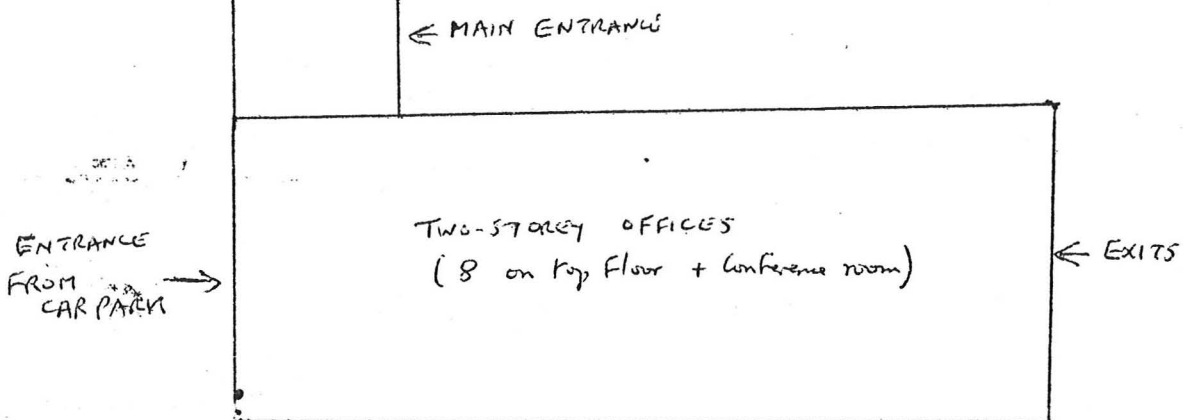
G 433



Individual Lab Limits

Bay 4	80g	} M4N2
Bay 7	80g	
Bay 19	30g	M3N2
Bay 23	50g	M3N2

Explosives handled in armored cupboards,
type tested to 30g or 50g.



EXPLANATORY NOTES -

- i. Both the maximum permitted Man Limit (M) and the number normally present (N) are required.
- ii. State quantity of explosive in each Hazard Division.
- iii. The perimeter fence marks the boundary of the Establishment. It is not necessarily the "Danger Building" Fence.
- iv. An occupied building is one that is normally occupied during working hours, as distinct from one occasionally visited.
- v. The detail of buildings and distances shown below should be checked to ensure no change has taken place before requesting an extension to the period covered by existing relaxation.

Establishment - PERME WALTHAM ABBEY ESSEX		Building No. G433 (If grouped with other rooms or buildings, give details)			
Use	Protective State - Traversed (T) or Untraversed (U) - State type of Traverse, and construction of building, walls and roof	Hazard Divisions	Compatibility Groups	P R O P O S E D	
				Man Limit M&N (Note i)	Explosive Limit (Note ii) (Kgs)
3 Locker Magazine	Standard ERDE Pattn	a) 1.1 or b) 1.3	Any	M2N0	a) 2kg or b) 5kg (per locker)

If this is to replace an existing limit, please state date present limit approved.

Explanatory notes, 1	Factor influencing Explosives limit 1	Distance in Metres 2	Number and use of building 3	T or U 4	Workers present M & N 5	For C.S.O. use 6
iii	Inside Perimeter Fence A. Nearest Explosives Storage Unit (a) traversed (b) untraversed	135	N532 Explosives Storehouse	T	M3N0	
iv	B. Main Office	8	Proposed Main Offices	U	20	
iv	C. Main Engineering Workshop	200	G412 Carpenters Wkshop	U	12	
	D. Nearest Explosives Process Building (a) traversed and (b) untraversed	8	G432 Laboratories	U	24	
iv)	E. Give numbers of all occupied non-explosive buildings within the OGD and give details at 1 overleaf					
	Outside Perimeter Fence F. Nearest building (dwelling house, church, etc.)	400	Lodge Lane Estate			
	G. Nearest road, railway, canal, river.	100	Proposed M25			

Date 15/8/80 Signature B. Newman Head of Establishment

Unrelaxed Explosive Limits (leave blank for CSO's use)

(a) HD 1.1 - 2Kop } per locker
OR (b) HD 1.3 - 5Kop

Date 6/11/80 Chief Safety Officer N. J. M. Rees

See overleaf for relaxations (where appropriate)

1. Details of Buildings shown at E overleaf. (A sketch of the area should be attached)

Building No.	Use	Distance in metres	T or U	Workers present M & N	Remarks	Leave this column for C.S.O.

2. Brief reference to any factors influencing the relaxation such as special procedures or written instructions that counter the additional potential hazard of the building:-

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3.

Is the fire cover in accordance with the recommended Establishment Fire Risk Classification?	Yes
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4. Relaxation approved

Hazard Division		Period		Signature
		From	To	
Limit (Kgs)				Chief Safety Officer _____ Date _____

Relaxation Extended (See Note v).

Hazard Division		Period		Signature
		From	To	
Limit (Kgs)				Chief Safety Officer _____ Date _____

EXPLANATORY NOTES -

- i. Both the maximum permitted Man Limit (M) and the number normally present (N) are required.
- ii. State quantity of explosive in each Hazard Division.
- iii. The perimeter fence marks the boundary of the Establishment. It is not necessarily the "Danger Building" Fence.
- iv. An occupied building is one that is normally occupied during working hours, as distinct from one occasionally visited.
- v. The detail of buildings and distances shown below should be checked to ensure no change has taken place before requesting an extension to the period covered by existing relaxation.

Establishment - ROF Waltham Abbey Building No. M321/~~with~~ M320/322 PPS
(If grouped with other rooms or buildings, give details)

Use	Protective State - Traversed (T) or Untraversed (U) - State type of Traverse, and construction of building, walls and roof	Hazard Divisions	Compatibility Groups	PROPOSED	
				Man Limit M&N (Note i)	Explosive Limit (Note ii) (Kgs)
Explosive storage of small rocket motors during firing trials. Day time only	U Concrete block construction, light roof	1.3	C	M3 N2	20

If this is to replace an existing limit, please state date present limit approved. 6.10.69

Explanatory notes ,	Factor influencing Explosives limit 1	Distance In Metres 2	Number and use of building 3	T or U 4	Workers present	For C.S.O. use 6
					M & N 5	
iii	A. Nearest Explosives Storage Unit (a) traversed (b) untraversed	64	M326 Gunpowder magazine	T	M2 NO	
		230	M355 Locker Magazine	U	M2 NO	
iv	B. Main Office	310	N505 Typing Pool + Tel Exch	U	N14	
iv	C. Main Engineering Workshop	140	M331 Electricians Workshop	U	M12	
		110	M342 Charge Machining	T	M3 N2	
iv	D. Nearest Explosives Process Building (a) traversed and (b) untraversed	245	M343 Explosive Processing	U		
		-				
	E. Give numbers of all occupied non-explosive buildings within the OQD and give details at 1 overleaf					
	F. Nearest building (dwelling house, church, etc.)	>400				
	G. Nearest road, railway, canal, river.	125	M25			

Date 26th June 1981 Signature A.P. Bell p.p. Head of Establishment

Unrelaxed Explosive Limits (leave blank for CSO's use)

PROPOSED LIMITS APPROVED

Date 2-7-85 Chief Safety Officer N. J. M. Rees

See overleaf for relaxations (where appropriate)

1. Details of Buildings shown at E overleaf. (A sketch of the area should be attached)

Building No.	Use	Distance in metres	T or U	Workers present M & N	Remarks	Leave this column for C.S.O.

2. Brief reference to any factors influencing the relaxation such as special procedures or written instructions that counter the additional potential hazard of the building:-

M320 is wooden preparation shed
 M321 is expense magazine
 M322 is static firing point for 'K' rounds, has concrete roof, concrete block construction
 M323 is smoke observation point.

3.

Is the fire cover in accordance with the recommended Establishment Fire Risk Classification?	Yes
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4. Relaxation approved

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

Relaxation Extended (See Note v).

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

EXPLANATORY NOTES -

- i. Both the maximum permitted Man Limit (M) and the number normally present (N) are required.
- ii. State quantity of explosive in each Hazard Division.
- iii. The perimeter fence marks the boundary of the Establishment. It is not necessarily the "Danger Building" Fence.
- iv. An occupied building is one that is normally occupied during working hours, as distinct from one occasionally visited.
- v. The detail of buildings and distances shown below should be checked to ensure no change has taken place before requesting an extension to the period covered by existing relaxation.

Establishment -		PERME, Waltham Abbey		Building No. M 325 (If grouped with other rooms or buildings, give details)	
Use	Protective State - Traversed (T) or Untraversed (U) - State type of Traverse, and construction of building, walls and roof	Hazard Divisions	Compatibility Groups	PROPOSED	
				Man Limit M&N (Note i)	Explosive Limit (Note ii) (Kgs)
Expense Magazine	U. 9" Brick 6" R.C Roof	1.3	C	M2NO	10

If this is to replace an existing limit, please state date present limit approved.

Explanatory notes ,	Factor influencing Explosives limit 1	Distance In Metres 2	Number and use of building 3	T or U 4	Workers present M & N 5	For C.S.O. use 6
iii	Inside Perimeter Fence A. Nearest Explosives Storage Unit (a) traversed (b) untraversed	30	M348 Explosives Storehouse	T	M3NO	
iv	B. Main Office	180	N505 Offices, Typing Pool Telephone Exchange	U	N 14	
iv	C. Main Engineering Workshop	180	M331 Electricians Workshop	U	M 12	
	D. Nearest Explosives Process Building (a) traversed and (b) untraversed	26	M343 Ballistics Assessment	U	M 20 N 16	
iv)	E. Give numbers of all occupied non-explosive buildings within the OOD and give details at 1 overleaf					
	Outside Perimeter Fence F. Nearest building (dwelling house, church, etc.)	>400				
	G. Nearest road, railway, canal, river.	310	M 25			

Date 1/12/82 Signature *A. J. Bell* pp. Head of Establishment

Unrelaxed Explosive Limits (leave blank for CSO's use)

PROPOSED LIMITS APPROVED

Date 18-8-83 Chief Safety Officer *N. J. Rees*

See overleaf for relaxations (where appropriate)

1. Details of Buildings shown at E overleaf. (A sketch of the area should be attached)

Building No.	Use	Distance in metres	T or U	Workers present H & H	Remarks	Leave this column for C.S.O.

2. Brief reference to any factors influencing the relaxation such as special procedures or written instructions that counter the additional potential hazard of the building:-

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3.

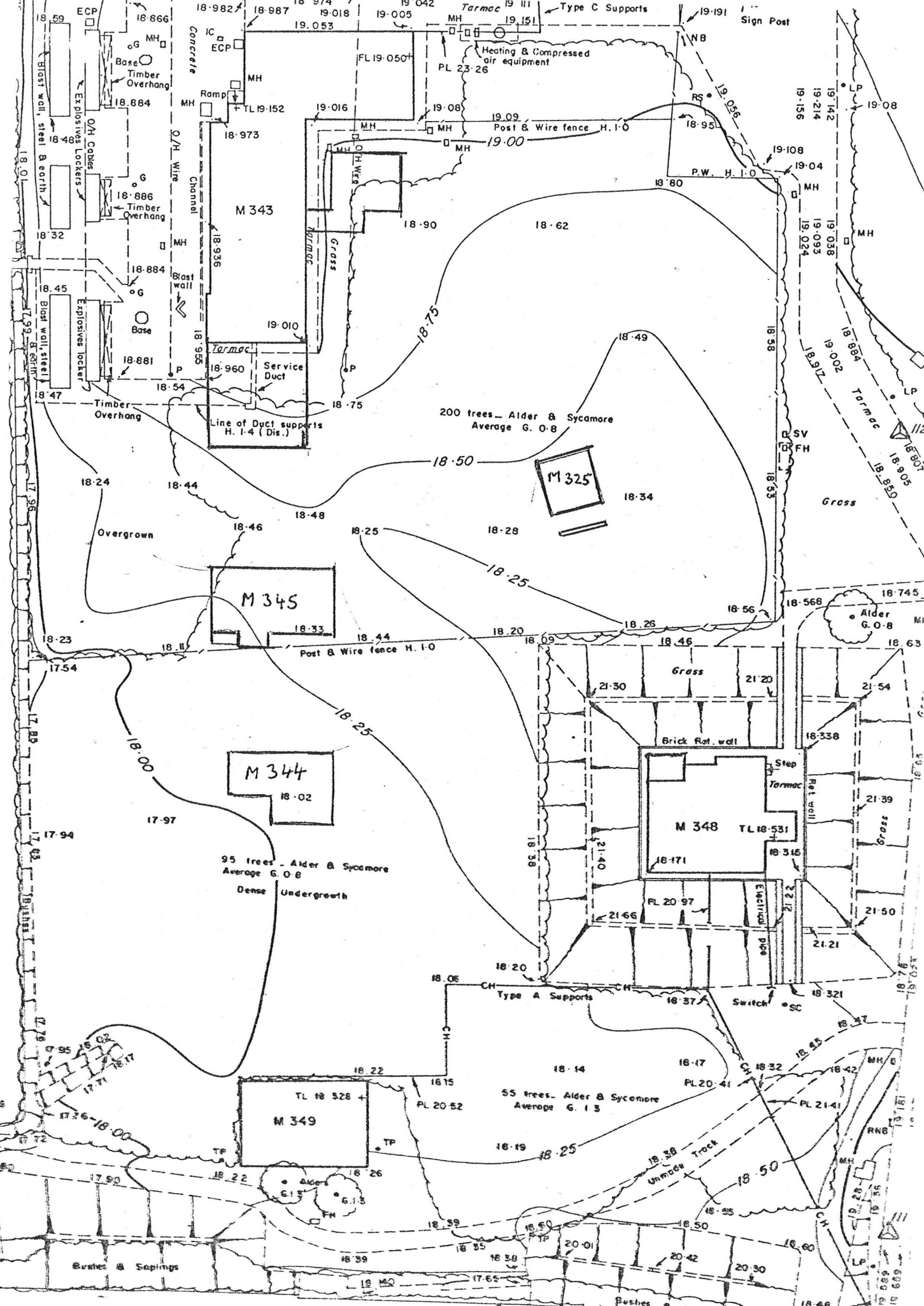
Is the fire cover in accordance with the recommended Establishment Fire Risk Classification?	Yes
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4. Relaxation approved

Hazard Division		Period		Signature
		From	To	
Limit (Kgs)				Chief Safety Officer _____ Date _____

Relaxation Extended (See Note v).

Hazard Division		Period		Signature
		From	To	
Li-it (Kgs)				Chief Safety Officer _____ Date _____



EXPLANATORY NOTES -

- i. Both the maximum permitted Man Limit (M) and the number normally present (N) are required.
 - ii. State quantity of each category of explosive - separately if possible. Give charge to weight ratio of Z items and say if joined to Y items.
 - iii. The perimeter fence marks the boundary of the Establishment. It is not necessarily the "Danger Building" Fence.
 - iv. Sub Offices or Auxiliary Workshops within the Outside Quantity Distance, (see Section 6, Appendix 6C of Av.P42 Revised 1975) will be entered at E and described in more detail at 1 overleaf.
 - v. Mention should be made here of all other occupied buildings within the OQD except those in Classes A & D which have already been considered.
- An occupied building is one that is normally occupied during working hours, as distinct from one occasionally visited.
- vi. The detail of buildings and distances shown below should be checked to ensure no change has taken place before requesting an extension to the period covered by existing relaxation.

Establishment - PERME Waltham Abbey				Building No. M326 (if grouped with other rooms or buildings, give details)	
Use	Protective State - Traversed (T) or Untraversed (U) - State type of Traverse, or if (U), construction of building, walls and roof	UN Hazard Class	Compati- bility Group(s)	PROPOSED	
				Man Limit M&N (Note i)	Explosive Limit (Note ii) (Kgs)
Magazine for gunpowder	T, Earth	1.1	D		50

If this is to replace an existing limit, please state date present limit approved.

Explanatory notes	Factor influencing Explosives limit	Distance in Metres	Number and use of building	T or U	Workers present M & N	For C.S.O. use
iii	Inside Perimeter Fence A. Nearest Explosives Storage Unit (a) traversed (b) untraversed	a) 250 b) 57	R605 Magazine M321 Locker magazine (1.3)	T U	- -	
iv	B. Main Office	200	Proposed SE offices	U	10	
iv	C. Main Engineering Workshop	82	M331 Electrician Workshop		M 12	
	D. Nearest Explosives Process Building (a) traversed (b) untraversed	150	M338 Remote handling facility/ Experimental gunpowder manufacture	T		
iv) v)	E. Give numbers of all other occupied buildings within the OQD and give details at 1 overleaf	25	- Nil.			
	Outside Perimeter Fence F. Nearest building (dwelling house, church, etc.)	340	Factory estate			
	G. Nearest road, railway, canal, river.	140 305	Grid Lea Navigation Canal			

Date 1.2.79 Signature [Signature] Head of Establishment

Unrelaxed Explosive Limits

Category X Z ZZ
Limit (Kgs) UN. 1.1. 1.1. 50kg (Gunpowder ONLY)
Date 2-5-79 Chief Safety Officer [Signature]

See overleaf for relaxations (where appropriate).

for C.S.O. use

1. Details of Buildings shown at E overleaf.

Building No.	Use	Distance in metres	T or U	Workers present M & N	Remarks	Leave this column for C.S.O.

2. Brief reference to any factors influencing the relaxation such as special procedures or written instructions that counter the additional potential hazard of the building:-

This licence must be reviewed when proposed motorway (160m) is open.

3. Relaxation approved.

Category	X	Y	Z	ZZ	Period		Signature
					from	to	
Limit (Kgs)							Chief Safety Officer _____ Date _____

Relaxation Extended (See Note vi).

Category	X	Y	Z	ZZ	Period		Signature
					from	to	
Limit (Kgs)							Chief Safety Officer _____ Date _____

Relaxation Extended (See Note vi).

Category	X	Y	Z	ZZ	Period		Signature
					from	to	
Limit (Kgs)							Chief Safety Officer _____ Date _____

EXPLANATORY NOTES -

- i. Both the maximum permitted Man Limit (M) and the number normally present (N) are required.
- ii. State quantity of explosive in each Hazard Division.
- iii. The perimeter fence marks the boundary of the Establishment. It is not necessarily the "Danger Building" Fence.
- iv. An occupied building is one that is normally occupied during working hours, as distinct from one occasionally visited.
- v. The detail of buildings and distances shown below should be checked to ensure no change has taken place before requesting an extension to the period covered by existing relaxation.

Establishment -		PERME, WALTHAM ABBEY ESSEX EN9 1BP		Building No. M338 (If grouped with other rooms or buildings, give details)	
Use	Protective State - Traversed (T) or Untraversed (U) - State type of Traverse, and construction of building, walls and roof	Hazard Divisions	Compatibility Groups	PROPOSED	
				Man Limit M&N (Note i)	Explosive Limit (Note ii) (Kgs)
10lb Remote Control Processing Facility (Currently used for Gunpowder inve- stigations)	T. Earth & Torpedo 12" R/C walls 12" R/roof with blow out wall to west	1.1	D	M4 N2	4.5

If this is to replace an existing limit, please state date present limit approved. **14-5-68**

Explan- atory notes ,	Factor influencing Explosives limit 1	Distance in Metres 2	Number and use of building 3	T or U 4	Workers	For C.S.O. use 6
					present M & N 5	
iii	Inside Perimeter Fence A. Nearest Explosives Storage Unit (a) traversed (b) untraversed	57 135	M355 Locker Magazine M348 Magazine	T	M3 NO	
iv	B. Main Office	37 92	Proposed E Branch Offices Proposed Offices	U U	M 12 N10	
iv	C. Main Engineering Workshop	80	G412 Carpenters Shop	U	N16	
	D. Nearest Explosives Process Building (a) traversed and (b) untraversed	55	M343 Composite Explosives Processing Labs & Offices	U	M10 N8	
iv)	E. Give numbers of all occupied non-explosive buildings within the OGD and give details at 1 overleaf	-				
	Outside Perimeter Fence F. Nearest building (dwelling house, church, etc.)	275	Industrial Estate			
	G. Nearest road, railway, canal, river.	185	Proposed M25			

Date ... 16 February 1981 ... Signature... B. H. Newman ... Head of Establishment

Unrelaxed Explosive Limits (leave blank for CSO's use)

H.D. (10) - 4.5 kgs.

Date ... 23-3-81 ... Chief Safety Officer ... W. J. Pees ...

See overleaf for relaxations (where appropriate)

1. Details of Buildings shown at E overleaf. (A sketch of the area should be attached)

Building No.	Use	Distance in metres	T or U	Workers present M & N	Remarks	Leave this column for C.S.O.

2. Brief reference to any factors influencing the relaxation such as special procedures or written instructions that counter the additional potential hazard of the building:-

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3.

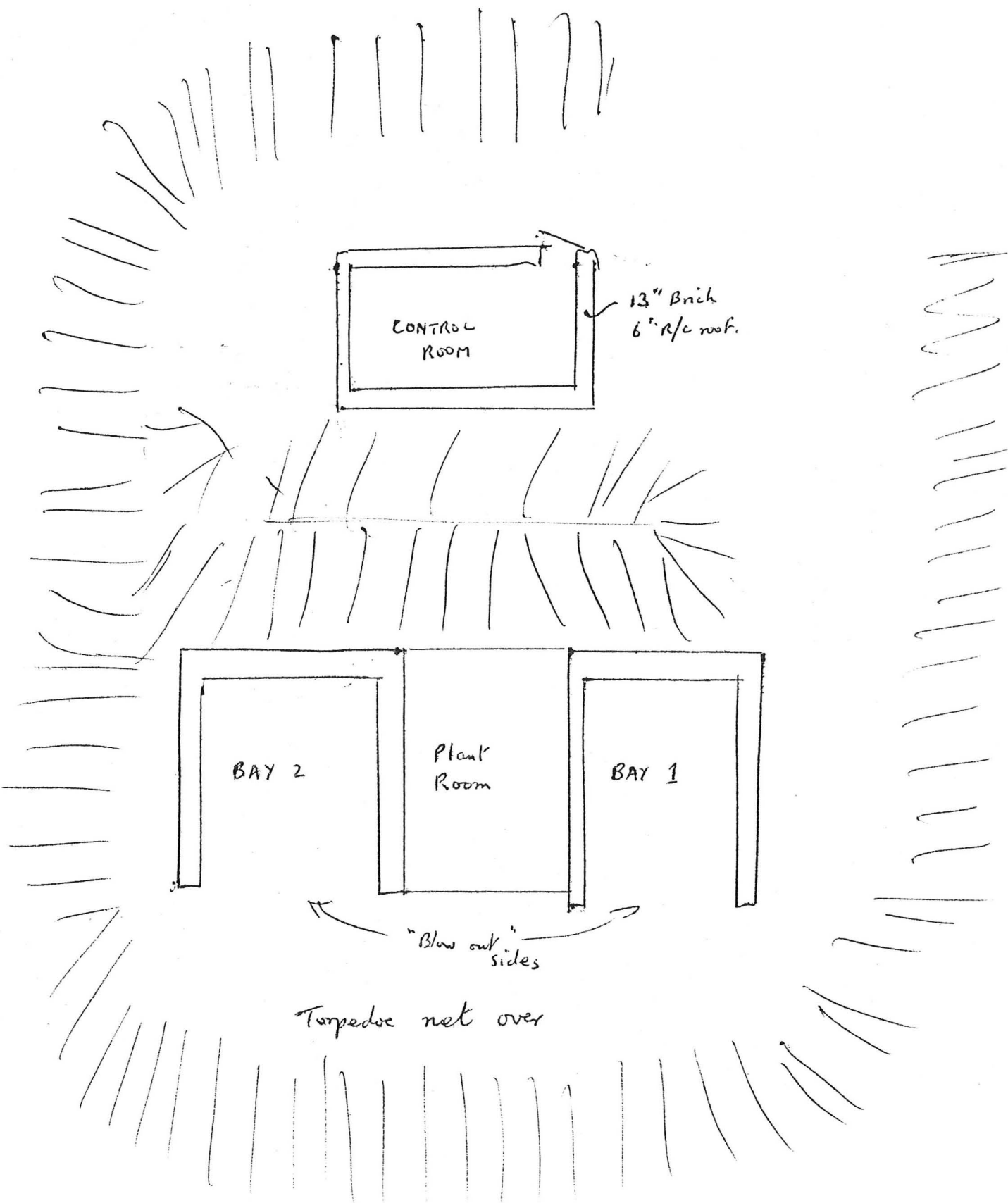
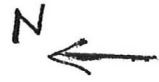
Is the fire cover in accordance with the recommended Establishment Fire Risk Classification?	Yes
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4. Relaxation approved

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

Relaxation Extended (See Note v).

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____



CONTROL ROOM

13" Brick
6" r/c roof.

BAY 2

Plant Room

BAY 1

"Blow out" sides

Torpedo net over

EXPLANATORY NOTES -

- i. Both the maximum permitted Man Limit (M) and the number normally present (N) are required.
- ii. State quantity of explosive in each Hazard Division.
- iii. The perimeter fence marks the boundary of the Establishment. It is not necessarily the "Danger Building" Fence.
- iv. An occupied building is one that is normally occupied during working hours, as distinct from one occasionally visited.
- v. The detail of buildings and distances shown below should be checked to ensure no change has taken place before requesting an extension to the period covered by existing relaxation.

Establishment -		ROF, Waltham Abbey, Essex		Building No. M342 (If grouped with other rooms or buildings, give details)	
Use	Protective State - Traversed (T) or Untraversed (U) - State type of Traverse, and construction of building, walls and roof	UN Class Hazard Divisions	Compatibility Groups	PROPOSED	
				Man Limit M&N (Note i)	Explosive Limit (Note ii) (Kgs)
Machining of HE charges, friction and compression tests	T Earth 3 sides Brick, board & felt roof	1.1	D	M5, N2	25

If this is to replace an existing limit, please state date present limit approved. 11.1.78

Explanatory notes ,	Factor influencing Explosives limit 1	Distance in Metres 2	Number and use of building 3	T or U 4	Workers present M & N 5	For C.S.O. use 6
iii	A. Nearest Explosives Storage Unit (a) traversed (b) untraversed	167	R607 Explosives Storehouse UN Class 1.1 or 1.3	T	Nil	
iv	B. Main Office	312	Proposed SE Office	U	10	
iv	C. Main Engineering Workshop	202 167	G331 Electricians Workshop Proposed Transport Workshop	U U	4	CONSULT DSSO BEFORE PROCEEDING PDS
	D. Nearest Explosives Process Building (a) traversed and (b) untraversed	107	Proposed 3lb Test Facility	T	3	
iv)	E. Give numbers of all occupied non-explosive buildings within the OQD and give details at 1 overleaf	207	M350, G405			
	Outside Perimeter Fence F. Nearest building (dwelling house, church, etc.)	165 150	Lock Keepers Cottage Scout Camp Site			
	G. Nearest road, railway, canal, river.	180 82	River Lea Navigation Power Grid			

Date 16-4-84 Signature A. J. Bell pp... Head of Establishment

Unrelaxed Explosive Limits (leave blank for CSO's use)

- ① NO EXPLOSIVES TO BE TAKEN INTO BUILDING WHEN THE SCOUT CAMP IS IN USE
- ② NO EXPLOSIVES TO BE KEPT INSIDE BUILDING DURING SILENT HOURS

Date 2-7-85 Chief Safety Officer N. J. M. Ryan

See overleaf for relaxations (where appropriate)

1. Details of Buildings shown at E overleaf. (A sketch of the area should be attached)

Building No.	Use	Distance in metres	T or U	Workers present M & N	Remarks	Leave this column for C.S.O.
M350	Oblique Impact Test	215	U	M4, N2	9" Brick Concrete roof	
G405	Boiler House	250	U	M4, N2		

2. Brief reference to any factors influencing the relaxation such as special procedures or written instructions that counter the additional potential hazard of the building:-

Not more than 7 kg being machined at any one time, spare charges being stored in a separate bay separated by 2 walls from machine bay. Mentelet is to be provided to cover western access door. Scout camp occupied for two weeks per annum (mid week); no machining allowed during these weeks. Snatch friction test only uses 30 g, adiabatic compression of liquids up to 500 ml, both only occasional use.

3.

Is the fire cover in accordance with the recommended Establishment Fire Risk Classification?	YES
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4. Relaxation approved

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

Relaxation Extended (See Note v).

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

EXPLANATORY NOTES -

- i. Both the maximum permitted Man Limit (M) and the number normally present (N) are required.
- ii. State quantity of explosive in each Hazard Division.
- iii. The perimeter fence marks the boundary of the Establishment. It is not necessarily the "Danger Building" Fence.
- iv. An occupied building is one that is normally occupied during working hours, as distinct from one occasionally visited.
- v. The detail of buildings and distances shown below should be checked to ensure no change has taken place before requesting an extension to the period covered by existing relaxation.

Establishment - Royal Ordnance Waltham Abbey				Building No. M 343 (If grouped with other rooms or buildings, give details)	
Use	Protective State - Traversed (T) or Untraversed (U) - State type of Traverse, and construction of building, walls and roof	Hazard Divisions	Compatibility Groups	PROPOSED	
				Man Limit M&N (Note i)	Explosive Limit (Note ii) (Kgs)
Ballistic Assessment Sensitiveness Tests Composite Propellant Manufacture	U R/C or brick R/C roof	1.1 & 1.3	C D G	M20 N16	36

If this is to replace an existing limit, please state date present limit approved. 13-11-73

Explanatory notes ,	Factor influencing Explosives limit 1	Distance in Metres 2	Number and use of building 3	T or U 4	Workers present M & N 5	For C.S.O. use 6
iii	Inside Perimeter Fence A. Nearest Explosives Storage Unit (a) traversed (b) untraversed	63 26	M 348 Explosive Store M 325 Expense Store	T U	M3N0 M2N0	
iv	B. Main Office	120	N 505 Typing Pool, Exchange	U	N 14	
iv	C. Main Engineering Workshop	140	M 331 Electricians Wksp	U	M20N16	
	D. Nearest Explosives Process Building (a) traversed and (b) untraversed	6	M 362 New Closed Vessel Test	U	M4N2	
iv)	E. Give numbers of all occupied non-explosive buildings within the OOD and give details at 1 overleaf					
	Outside Perimeter Fence F. Nearest building (dwelling house, church, etc.)	>400				
	G. Nearest road, railway, canal, river.	>400				

Date 27-11-85 Signature *A. J. B. [unclear]* pp. Head of Establishment

Unrelaxed Explosive Limits (leave blank for CSO's use)
PROPOSED LIMITS APPROVED SUBJECT TO THE FOLLOWING ENDORSEMENTS:- ① Distribution of explosives is to be as per attached plan. ② When Bays E and F are being used simultaneously for holding explosives they should only be located in the areas on the plan coloured green.
 Date 12-4-88 Chief Safety Officer *N. J. [unclear]*
 See overleaf for relaxations (where appropriate)

1. Details of Buildings shown at E overleaf. (A sketch of the area should be attached)

Building No.	Use	Distance in metres	T or U	Workers present M & N	Remarks	Leave this column for C.S.O.

2. Brief reference to any factors influencing the relaxation such as special procedures or written instructions that counter the additional potential hazard of the building:-

Personnel in M 362 will be from those in M 343.
6 Curing ovens 14m west of M 343, T, 5kg. each, H.D. 1.1. or 1.3. C or D

3. Is the fire cover in accordance with the recommended Establishment Fire Risk Classification? Yes

4. Relaxation approved

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

Relaxation Extended (See Note v).

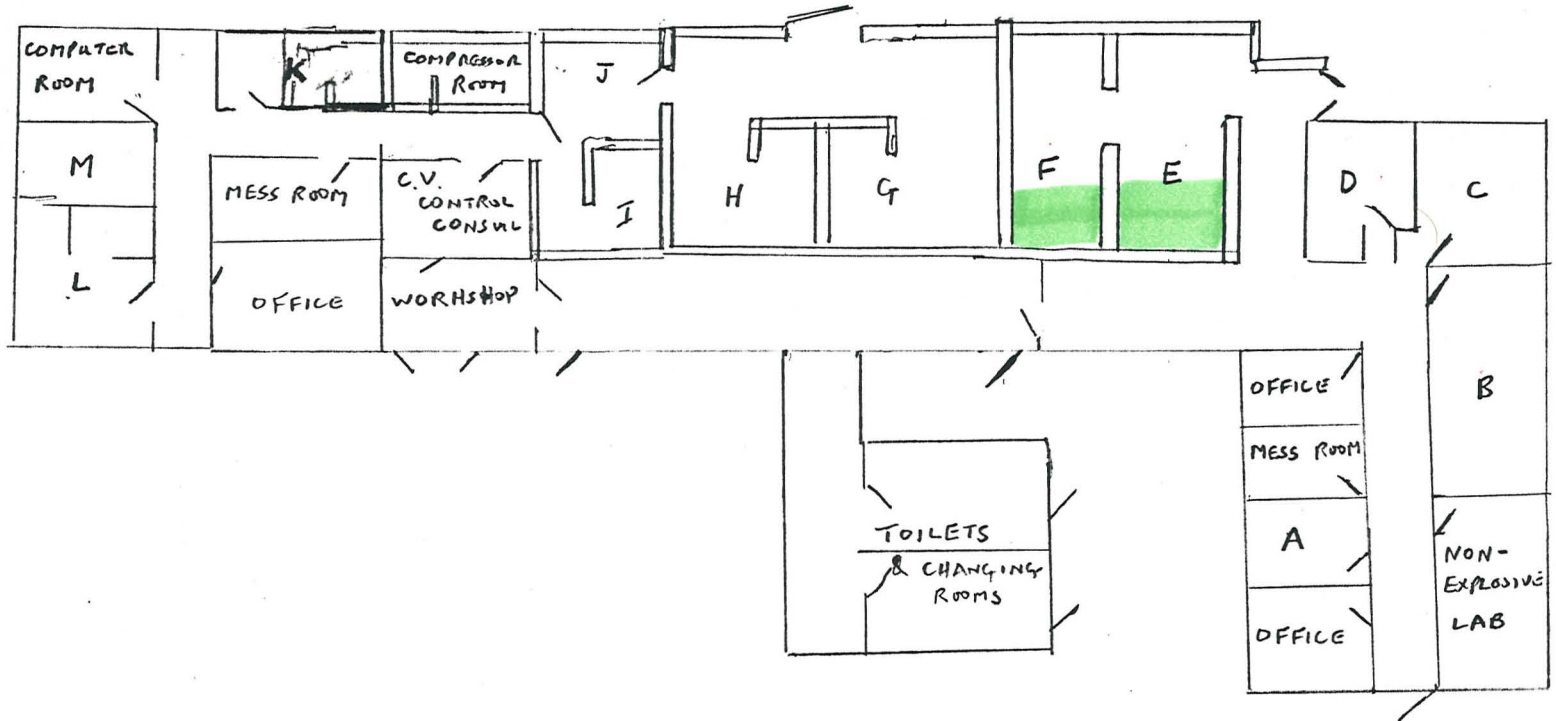
Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

Outside 6 curing ovens, 5 kg H.P. 1.1. C or D
each

M 343

- G Strand Burner) 2kg 1.3.C
- H Strand Burner)
- I Closed Vessel Test 300g. 1.1. or 1.3. C
- J Conditioning Cabinets 5kg *.*
- K Sample Preparation 2kg 1.1.C G
- L Calorimetry 500g 1.1. or 1.3.C
- M

- A Electrosensitiveness Tests 500g. 1.1.A C D G
- B Friction Tests 2kg 1.1. C D G
- C Impact & Ignition Tests 2kg 1.1. C D G
- D Physical Tests 5kg. 1.1. C D
- 500g max charge
- E Process Bay 10kg 1.1. C D
- F Process Bay 10kg 1.1. C D



EXPLANATORY NOTES -

- i. Both the maximum permitted Man Limit (M) and the number normally present (N) are required.
- ii. State quantity of explosive in each Hazard Division.
- iii. The perimeter fence marks the boundary of the Establishment. It is not necessarily the "Danger Building" Fence.
- iv. An occupied building is one that is normally occupied during working hours, as distinct from one occasionally visited.
- v. The detail of buildings and distances shown below should be checked to ensure no change has taken place before requesting an extension to the period covered by existing relaxation.

Establishment - PERME, Waltham Abbey				Building No. M344 (If grouped with other rooms or buildings, give details)	
Use	Protective State - Traversed (T) or Untraversed (U) - State type of Traverse, and construction of building, walls and roof	Hazard Divisions	Compatibility Groups	PROPOSED	
				Man Limit M&N (Note i)	Explosive Limit (Note ii) (Kgs)
Shatter Test Proof Stand	U, Reinforced 6" concrete block, 6" R/C roof	1.3	C	M2N1	1

If this is to replace an existing limit, please state date present limit approved.

Explanatory notes ,	Factor influencing Explosives limit 1	Distance In Metres 2	Number and use of building 3	T or U 4	Workers present M & N 5	For C.S.O. use 6
iii	Inside Perimeter Fence A. Nearest Explosives Storage Unit (a) traversed (b) untraversed	36 36	M348 Explosive Storehouse M325 Expense Magazine	T U	M3N0 M2N0	
iv	B. Main Office	205	N506 Offices, Typing Pool & Telephone Exchange	U	N14	
iv	C. Main Engineering Workshop	205	M331 Electricians Workshop	U	M12	
	D. Nearest Explosives Process Building (a) traversed and (b) untraversed	11	M345 Proof Stand	U	M4N2	
iv)	E. Give numbers of all occupied non-explosive buildings within the OOD and give details at 1 overleaf					
	Outside Perimeter Fence F. Nearest building (dwelling house, church, etc.)	> 400				
	G. Nearest road, railway, canal, river.	350	M 25			

Date 1/12/82 Signature..... *A. Bell* Head of Establishment

Unrelaxed Explosive Limits (leave blank for CSO's use)

PROPOSED LIMITS APPROVED

Date 18-8-83 Chief Safety Officer *N. J. Rees*

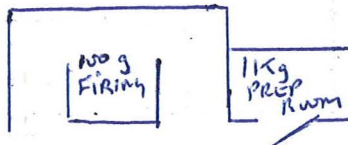
See overleaf for relaxations (where appropriate)

1. Details of Buildings shown at E overleaf. (A sketch of the area should be attached)

Building No.	Use	Distance in metres	T or U	Workers present H & H	Remarks	Leave this column for C.S.O.

2. Brief reference to any factors influencing the relaxation such as special procedures or written instructions that counter the additional potential hazard of the building:-

Test (100g) fired from M345. 1kg limit required for conditioning of charges.



3.

Is the fire cover in accordance with the recommended Establishment Fire Risk Classification?	Yes
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4. Relaxation approved

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

Relaxation Extended (See Note v).

Hazard Division	Period		Signature
	From	To	
Li-it (Kgs)			Chief Safety Officer _____ Date _____

EXPLANATORY NOTES -

- i. Both the maximum permitted Man Limit (M) and the number normally present (N) are required.
- ii. State quantity of explosive in each Hazard Division.
- iii. The perimeter fence marks the boundary of the Establishment. It is not necessarily the "Danger Building" Fence.
- iv. An occupied building is one that is normally occupied during working hours, as distinct from one occasionally visited.
- v. The detail of buildings and distances shown below should be checked to ensure no change has taken place before requesting an extension to the period covered by existing relaxation.

Establishment - PERME, Waltham Abbey		Building No. M345 (If grouped with other rooms or buildings, give details)			
Use	Protective State - Traversed (T) or Untraversed (U) - State type of Traverse, and construction of building, walls and roof	Hazard Divisions	Compatibility Groups	PROPOSED	
				Man Limit M&N (Note i)	Explosive Limit (Note ii) (Kgs)
Proof Stand	U, Firing chamber in R/C, R/C roof, Preparation & control bays, brick, R/C roof	1.3	C	M4N2	5

If this is to replace an existing limit, please state date present limit approved.

Explanatory notes,	Factor influencing Explosives limit	Distance In Metres	Number and use of building	T or U	Workers present M & N	For C.S.O. use
	1	2	3	4	5	6
iii	Inside Perimeter Fence	37	M 348 Explosives Storehouse	T	M3NO	
	A. Nearest Explosives Storage Unit (a) traversed (b) untraversed	25	M 325 Expense Magazine	U	M2NO	
iv	B. Main Office	185	N506 Offices, Typing Pool & Telephone Exchange	U	N14	
iv	C. Main Engineering Workshop	185	M331 Electricians Workshop	U	M12	
	D. Nearest Explosives Process Building (a) traversed and (b) untraversed	11	M344 Shatter test proof stand	U	M2N1	
iv)	E. Give numbers of all occupied non-explosive buildings within the OOD and give details at 1 overleaf					
	Outside Perimeter Fence					
	F. Nearest building (dwelling house, church, etc.)	> 400				
	G. Nearest road, railway, canal, river.	335	M 25			

Date 1/12/82 Signature A. Bell Head of Establishment

Unrelaxed Explosive Limits (leave blank for CSO's use)

PROPOSED LIMITS APPROVED

Date 18-8-83 Chief Safety Officer N. J. Rees

See overleaf for relaxations (where appropriate)

1. Details of Buildings shown at E overlaf. (A sketch of the area should be attached)

Building No.	Use	Distance in metres	T or U	Workers present M & H	Remarks	Leave this column for C.S.O.

2. Brief reference to any factors influencing the relaxation such as special procedures or written instructions that counter the additional potential hazard of the building:-

4kg limit for conditioning room, 1kg limit on Assembly Bay.
 Max charge 1kg in open test chamber, 0.5kg in closed test chamber.
 Tests may be fired from M345 or M343, Shatter tests in M344 fired from this building

3.

Is the fire cover in accordance with the recommended Establishment Fire Risk Classification?	Yes
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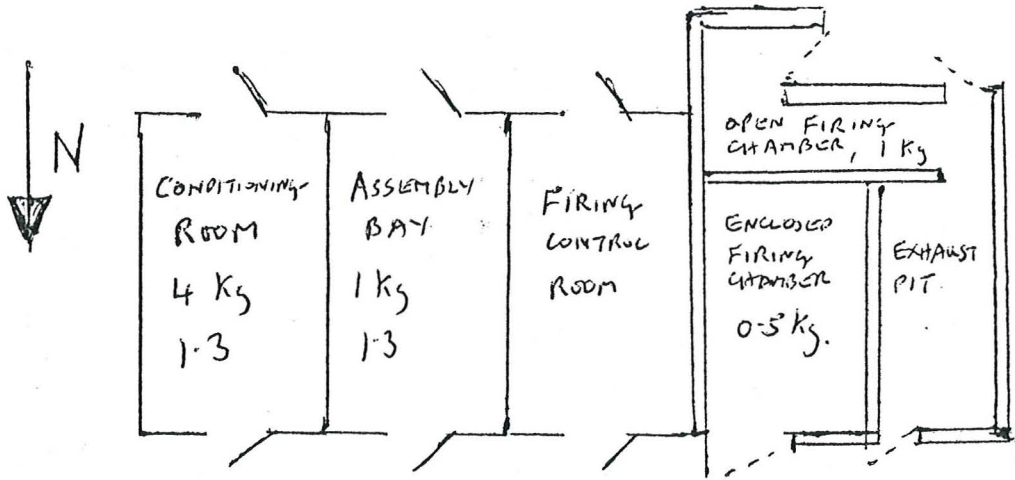
4. Relaxation approved

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

Relaxation Extended (See Note v).

Hazard Division	Period		Signature
	From	To	
Li-it (Kgs)			Chief Safety Officer _____ Date _____

M 345.



N. R.
18-8-83

EXPLANATORY NOTES -

- i. Both the maximum permitted Man Limit (M) and the number normally present (N) are required.
- ii. State quantity of explosive in each Hazard Division.
- iii. The perimeter fence marks the boundary of the Establishment. It is not necessarily the "Danger Building" Fence.
- iv. An occupied building is one that is normally occupied during working hours, as distinct from one occasionally visited.
- v. The detail of buildings and distances shown below should be checked to ensure no change has taken place before requesting an extension to the period covered by existing relaxation.

Establishment - ROF Waltham Abbey				Building No. M348 (If grouped with other rooms or buildings, give details)	
Use	Protective State - Traversed (T) or Untraversed (U) - State type of Traverse, and construction of building, walls and roof	Hazard Divisions	Compatibility Groups	P R O P O S E D	
				Man Limit M&N (Note i)	Explosive Limit (Note ii) (Kgs)
Explosive Storehouse + Explosive Weighing	T, Earth Brick Construction. Tile roof.	1.1	C or D	M3 NO	250 + 1 RDX drying

If this is to replace an existing limit, please state date present limit approved. 3.9.83

Explanatory notes,	Factor influencing Explosives limit 1	Distance in Metres 2	Number and use of building 3	T or U 4	Workers present	For C.S.O. use 6
					M & N 5	
iii	Inside Perimeter Fence A. Nearest Explosives Storage Unit (a) traversed (b) untraversed	63	N547 Propellant Storehouse	T	M5 NO	
		30	M325 Expense Magazine	U	M2 NO	
iv	B. Main Office	187	N505 Typists, Telephone Exch	U	N14	
iv	C. Main Engineering Workshop	217	M331 Electricians Workshop	U	M12	
		63	M343 Ballistic Assessment etc	U	M20 N16	
	D. Nearest Explosives Process Building (a) traversed and (b) untraversed	36	M344 Proof Stand	U	M4 N2	
iv)	E. Give numbers of all occupied non-explosive buildings within the OOD and give details at 1 overleaf					
	Outside Perimeter Fence F. Nearest building (dwelling house, church, etc.)	>400				
	G. Nearest road, railway, canal, river.	>400				

Date 26th June 1984 Signature A. Bell Head of Establishment

Unrelaxed Explosive Limits (leave blank for CSO's use)

PROPOSED LIMITS APPROVED SUBJECT TO THE FOLLOWING ENDORSEMENT :-

WEIGHING OF BOXED EXPLOSIVES ONLY IS PERMITTED - NO UNHEADING IS ALLOWED INSIDE THE STOREHOUSE

Date 12-4-88 Chief Safety Officer N. M. Rees

See overleaf for relaxations (where appropriate)

1. Details of Buildings shown at E overleaf. (A sketch of the area should be attached)

Building No.	Use	Distance in metres	T or U	Workers present M & N	Remarks	Leave this column for C.S.O.

2. Brief reference to any factors influencing the relaxation such as special procedures or written instructions that counter the additional potential hazard of the building:-

RDX drying in annex built on to NW corner of building.
M344 occupied only on an occasional basis, and of sturdy construction.
Weighing facility geographically separate from storage space, will only be used for stock checking, not dispensing.

3.

Is the fire cover in accordance with the recommended Establishment Fire Risk Classification?	Yes
--	-----

4. Relaxation approved

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

Relaxation Extended (See Note v).

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

MINISTRY OF DEFENCE (PROCUREMENT EXECUTIVE) - EXPLOSIVES LIMITS

CER(PE)71

(Revised June 1975)
(Replacing Gen Form 49)

EXPLANATORY NOTES -

- i. Both the maximum permitted Man Limit (M) and the number normally present (N) are required.
- ii. State quantity of each category of explosive - separately if possible. Give charge to weight ratio of Z items and say if joined to Y items.
- iii. The perimeter fence marks the boundary of the Establishment. It is not necessarily the "Danger Building" Fence.
- iv. Sub Offices or Auxiliary Workshops within the Outside Quantity Distance, (see Section 6, Appendix 6C of Av.P42 Revised 1975) will be entered at E and described in more detail at 1 overleaf.
- v. Mention should be made here of all other occupied buildings within the OQD except those in Classes A & D which have already been considered.
An occupied building is one that is normally occupied during working hours, as distinct from one occasionally visited.
- vi. The detail of buildings and distances shown below should be checked to ensure no change has taken place before requesting an extension to the period covered by existing relaxation.

Establishment - PERME, Waltham Abbey, Essex Building No. M 350 Group
(if grouped with other rooms or buildings, give details)

Use	Protective State - Traversed (T) or Untraversed (U) - State type of Traverse, or if (U), construction of building, walls and roof	UN Class Quantity Distance Category	Compatibility Group Explosive Group(s)	PROPOSED	
				Man Limit M&N (Note i)	Explosive Limit. (Note ii) (Kgs)
Oblique Impact Test Facility	T Concrete and earth 3 sides CONCRETE BLOCK ON 4 TH SIDE	1.1	D	M 4 N 2	10

If this is to replace an existing limit, please state date present limit approved. 11-1-78

Explanatory notes	Factor influencing Explosives limit	Distance in Metres	Number and use of building	T or U	Workers present M & N	For C.S.O. use
	1	2	3	4	5	6
iii	Inside Perimeter Fence A. Nearest Explosives Storage Unit (a) traversed (b) untraversed	65	R 603 Explosives Storehouse UN Class 1.1	T	-	
iv	B. Main Office	125	Proposed SE Office	U	10	
iv	C. Main Engineering Workshop	180	M 331 Electricians Workshop	U		
	D. Nearest Explosives Process Building (a) traversed (b) untraversed	84	M 343	U		
iv) v)	E. Give numbers of all other occupied buildings within the OQD and give details at 1 overleaf	270 137m	M 342 P 710 R 626 G 405 R 614 Proposed telephone exchange Proposed 3 lb facility			
	Outside Perimeter Fence F. Nearest building (dwelling house, church, etc.)	400 365	Lock keepers cottage Scout camp site			
	G. Nearest road, railway, canal, river.	405 235	River Lea Navigation Power Grid			

Date 16/12/77 Signature *[Signature]* Head of Establishment

Unrelaxed Explosive Limits

Category X Y Z ZZ
Limit (Kgs) UN 1.19. 10Kg.
Date 14/1/78 Chief Safety Officer *[Signature]*

See overleaf for relaxations (where appropriate).

for C.S.O. use

1. Details of Buildings shown at E overleaf.

Building No.	Use	Distance in metres	T or U		Workers present M & N	Remarks	Leave this column for C.S.O.
			T	U			
M 342	Machining of HE Charges	215	T				
G 405	Boiler House	232	U		M4,N2		
P 710	In Process Store	217	T		M3,N1		
R 614	Cordite Rumbling	163	T		M4,N3		
R 626	Proposed Process Building						
	Combustible Cartridge Cases	245	U				
505	Proposed Telephone Exchange	245	U		M4,N2	9" Brick concrete roof	CHANGED
	Proposed 3 lb Test Facility	100	T				

2. Brief reference to any factors influencing the relaxation such as special procedures or written instructions that counter the additional potential hazard of the building:-

Maximum charge for test 3.5kg, with 2 others in separate expense magazine outside traverse. Control room outside traverse. Traverse open to north - M 331 and G 405 in direct line. Area between M 350 and M 331 to be clear of all personnel when tests in progress, and warning hooter to be sounded.

3. Relaxation approved.

Category	X	Y	Z	ZZ	Period		Signature
					from	to	
Limit (Kgs)							Chief Safety Officer _____ Date _____

Relaxation Extended (See Note vi).

Category	X	Y	Z	ZZ	Period		Signature
					from	to	
Limit (Kgs)							Chief Safety Officer _____ Date _____

Relaxation Extended (See Note vi).

Category	X	Y	Z	ZZ	Period		Signature
					from	to	
Limit (Kgs)							Chief Safety Officer _____ Date _____

EXPL.ATORY NOTES -

- i. Both the maximum permitted Man Limit (M) and the number normally present (N) are required.
- ii. State quantity of explosive in each Hazard Division.
- iii. The perimeter fence marks the boundary of the Establishment. It is not necessarily the "Danger Building" Fence.
- iv. An occupied building is one that is normally occupied during working hours, as distinct from one occasionally visited.
- v. The detail of buildings and distances shown below should be checked to ensure no change has taken place before requesting an extension to the period covered by existing relaxation.

Establishment - PERME, Waltham Abbey				Building No. M 353 (If grouped with other rooms or buildings, give details)	
Use	Protective State - Traversed (T) or Untraversed (U) - State type of Traverse, and construction of building, walls and roof	Hazard Divisions	Compatibility Groups	PROPOSED	
				Man Limit M&N (Note i)	Explosive Limit (Note ii) (Kgs)
Storage of Detonators, Igniters, etc.	U. 9" brick 6" R/C roof (EX air raid shelter)	1.1. 1.3 1.4	B G B & S	M3 NO	20

If this is to replace an existing limit, please state date present limit approved.

Explanatory notes	Factor influencing Explosives limit 1	Distance In Metres 2	Number and use of building 3	T or U 4	Workers present M & N 5	For C.S.O. use 6
iii	Inside Perimeter Fence A. Nearest Explosives Storage Unit (a) traversed (b) untraversed	65 210	R 607 Propellant Storehouse Expense Magazine near M 350	T U	M4N0 M3N0	
iv	B. Main Office	450	N 505 Telephone exchange, Typing pool & offices	U	N 14	
iv	C. Main Engineering Workshop	300	M 331 Electricians Shop.	U	M 12	
	D. Nearest Explosives Process Building (a) traversed and (b) untraversed	92	M 342 Charge Machining	T	M5N2	
iv)	E. Give numbers of all occupied non-explosive buildings within the OOD and give details at 1 overleaf	-				
	Outside Perimeter Fence F. Nearest building (dwelling house, church, etc.)	177 127	Lock Keepers Cottage Scout Hut.			
	G. Nearest road, railway, canal, river.	122 167	Grid (centre line) Lea Navigation			

Date 3rd March 1983 Signature [Signature] Head of Establishment

Unrelaxed Explosive Limits (leave blank for CSO's use)

PROPOSED LIMITS APPROVED

Date 18-8-83 Chief Safety Officer [Signature]

See overleaf for relaxations (where appropriate)

1. Details of Buildings shown at E overleaf. (A sketch of the area should be attached)

Building No.	Use	Distance in metres	T or U	Workers present M & H	Remarks	Leave this column for C.S.O.

2. Brief reference to any factors influencing the relaxation such as special procedures or written instructions that counter the additional potential hazard of the building:-

Different Compatibility Groups will be physically separated.
 Lock Keepers Cottage currently unoccupied.
 Scout Hut only used for a few hours per week normally.

3.

Is the fire cover in accordance with the recommended Establishment Fire Risk Classification?	Yes
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4. Relaxation approved

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

Relaxation Extended (See Note v).

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

EXPLANATORY NOTES -

- i. Both the maximum permitted Man Limit (M) and the number normally present (N) are required.
- ii. State quantity of explosive in each Hazard Division.
- iii. The perimeter fence marks the boundary of the Establishment. It is not necessarily the "Danger Building" Fence.
- iv. An occupied building is one that is normally occupied during working hours, as distinct from one occasionally visited.
- v. The detail of buildings and distances shown below should be checked to ensure no change has taken place before requesting an extension to the period covered by existing relaxation.

Establishment - PERME WALTHAM ABBEY ESSEX		Building No. M355 (If grouped with other rooms or buildings, give details)			
Use	Protective State - Traversed (T) or Untraversed (U) - State type of Traverse, and construction of building, walls and roof	Hazard Divisions	Compatibility Groups	PROPOSED	
				Man Limit M&N (Note i)	Explosive Limit (Note ii) (Kgs)
3 Locker Magazine	Standard ERDE Pattn	a) 1.1 or b) 1.3	Any	M2N0	a) 2kg or b) 5kg (per locker)

If this is to replace an existing limit, please state date present limit approved.

Explanatory notes ,	Factor influencing Explosives limit 1	Distance in Metres 2	Number and use of building 3	T or U 4	Workers present M & N 5	For C.S.O. use 6
iii	Inside Perimeter Fence A. Nearest Explosives Storage Unit (a) traversed (b) untraversed	112	N545 Proposed Locker Magazines	T	M4N0	
iv	B. Main Office	(65 45)	N506 Telephone Exch/Typ Pool Proposed Directors Bldg	U U	12 8)	
iv	C. Main Engineering Workshop	20	G412 Carpenters Wkshops	U	12	
	D. Nearest Explosives Process Building (a) traversed and (b) untraversed	60	M338 Gunpowder Process Development	T	M4N2	
iv)	E. Give numbers of all occupied non-explosive buildings within the OQD and give details at 1 overleaf					
	Outside Perimeter Fence F. Nearest building (dwelling house, church, etc.)	600	Lodge Lane Estate			
	G. Nearest road, railway, canal, river.	125	Proposed M25			

Date 15/8/80 Signature..... B. Newman Head of Establishment

Unrelaxed Explosive Limits (leave blank for CSO's use)

(a) HD 1.1 - 2kg } PW lockers
OR (b) HD 1.3 - 5kg }

Date 6/9/80 Chief Safety Officer N. Finches

See overleaf for relaxations (where appropriate)

1. Details of Buildings shown at E overleaf. (A sketch of the area should be attached)

Building No.	Use	Distance in metres	T or U	Workers present M & N	Remarks	Leave this column for C.S.O.

2. Brief reference to any factors influencing the relaxation such as special procedures or written instructions that counter the additional potential hazard of the building:-

--

3.

Is the fire cover in accordance with the recommended Establishment Fire Risk Classification?	Yes
--	------------

4. Relaxation approved

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

Relaxation Extended (See Note v).

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

EXPLANATORY NOTES -

- i. Both the maximum permitted Man Limit (M) and the number normally present (N) are required.
- ii. State quantity of explosive in each Hazard Division.
- iii. The perimeter fence marks the boundary of the Establishment. It is not necessarily the "Danger Building" Fence.
- iv. An occupied building is one that is normally occupied during working hours, as distinct from one occasionally visited.
- v. The detail of buildings and distances shown below should be checked to ensure no change has taken place before requesting an extension to the period covered by existing relaxation.

Establishment - ROF, Waltham Abbey		Building No. N 500 (If grouped with other rooms or buildings, give details)			
Use	Protective State - Traversed (T) or Untraversed (U) - State type of Traverse, and construction of building, walls and roof	Hazard Divisions	Compatibility Groups	PROPOSED	
				Man Limit M&N (Note i)	Explosive Limit (Note ii) (Kgs)
Ready-Use Explosive Storehouse	T. Earth R/C, board and felt roof	1.1	C & D	M 2 N 0	40

If this is to replace an existing limit, please state date present limit approved. -

Explanatory notes ,	Factor influencing Explosives limit 1	Distance in Metres 2	Number and use of building 3	T or U 4	Workers present M & N 5	For C.S.O. use 6
iv	B. Main Office	94	N 505 Typing Pool and Telephone Exchange	U	N12	
iv	C. Main Engineering Workshop	180	G 408 Services Workshop	U	M30	
	D. Nearest Explosives Process Building (a) traversed and (b) untraversed	110 84	N 548 Sieving House M 343 Explosive Processing	T U	M4 NO M20 N16	
iv)	E. Give numbers of all occupied non-explosive buildings within the OQD and give details at 1 overleaf	180	M 329 G 430 N 506 N 509			
	Outside Perimeter Fence F. Nearest building (dwelling house, church, etc.)	>400				
	G. Nearest road, railway, canal, river.	260	M25			

Date 17-5-84 Signature A.T. Bell Head of Establishment

Unrelaxed Explosive Limits (leave blank for CSO's use)

PROPOSED LIMITS APPROVED

Date 2-7-85 Chief Safety Officer N.J. Rees

See overleaf for relaxations (where appropriate)

1. Details of Buildings shown at E overleaf. (A sketch of the area should be attached)

Building No.	Use	Distance in metres	T or U	Workers present M & N	Remarks	Leave this column for C.S.O.
M 329	Electrical Section Office	160	U	N2		
G 430	Composite Materials Processing	130	U) N8		
N 506	Composite Materials Labs and Offices	88	U)		
N 509	Canteen	115	U)		

2. Brief reference to any factors influencing the relaxation such as special procedures or written instructions that counter the additional potential hazard of the building:-

Building is 2 separate R/C Cruciform structures, with R/C roof over cruciform. Board and Felt roof over building. Unit risk 5 Kg. For M 343 use.

3.

Is the fire cover in accordance with the recommended Establishment Fire Risk Classification?	Yes
--	-----

4. Relaxation approved

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

Relaxation Extended (See Note v).

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

EXPLANATORY NOTES -

- i. Both the maximum permitted Man Limit (M) and the number normally present (N) are required.
- ii. State quantity of explosive in each Hazard Division.
- iii. The perimeter fence marks the boundary of the Establishment. It is not necessarily the "Danger Building" Fence.
- iv. An occupied building is one that is normally occupied during working hours, as distinct from one occasionally visited.
- v. The detail of buildings and distances shown below should be checked to ensure no change has taken place before requesting an extension to the period covered by existing relaxation.

Establishment - PERME Waltham Abbey		Building No. N530 (If grouped with other rooms or buildings, give details)			
Use	Protective State - Traversed (T) or Untraversed (U) - State type of Traverse, and construction of building, walls and roof	Hazard Divisions	Compatibility Groups	PROPOSED	
				Man Limit M&N (Note i)	Explosive Limit (Note ii) (Kgs)
Nitration House, for materials of low sensitivity	T, Earth and Steel Netting Sheet asbestos clad, B and F roof	1.1	D	M4N3	90 (45 unit risk)

If this is to replace an existing limit, please state date present limit approved. 1 7 68

Explanatory notes ,	Factor influencing Explosives limit 1	Distance In Metres 2	Number and use of building 3	T or U 4	Workers present M & N 5	For C.S.O. use 6
iv	B. Main Office	(90 110)	G445 DO Office) under G444 Eng ") construction	U U	N10 N10	
iv	C. Main Engineering Workshop	142	G440 Electronics & Glass Engineers Wkshp	U	N12	
	D. Nearest Explosives Process Building (a) traversed and (b) untraversed	62	N534 Pilot Plant, hazardous chemicals	T	M4N3	
iv)	E. Give numbers of all occupied non-explosive buildings within the OGD and give details at 1 overleaf	31	-			
	Outside Perimeter Fence F. Nearest building (dwelling house, church, etc.)	175	Housing at Lodge Lane			
	G. Nearest road, railway, canal, river.	90 105	A112 M25 (under construction)			

Date 30/11/81 Signature B. Newman Head of Establishment

Unrelaxed Explosive Limits (leave blank for CSO's use)

ND - 1.1D - 90Kgp (45Kgp per Bay)

Date 18-12-81 Chief Safety Officer NJmRees

See overleaf for relaxations (where appropriate)

1. Details of Buildings shown at E overleaf. (A sketch of the area should be attached)

Building No.	Use	Distance in metres	T or U	Workers present M & N	Remarks	Leave this column for C.S.O.
	-					

2. Brief reference to any factors influencing the relaxation such as special procedures or written instructions that counter the additional potential hazard of the building:-

Steel "torpedo" netting provided to give 45° cover to N & E. Two reactors in building against E wall, separated by R/C wall. 45 kg unit risk, but both reactors likely to be in use at same time. Low sensitivity materials, eg mono, di and tri-nitro ethyl benzene, TATB to be manufactured.

3.

Is the fire cover in accordance with the recommended Establishment Fire Risk Classification?	YES
--	-----

4. Relaxation approved

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

Relaxation Extended (See Note v).

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

EXPLANATORY NOTES -

- i. Both the maximum permitted Man Limit (M) and the number normally present (N) are required.
 - ii. State quantity of each category of explosive - separately if possible. Give charge to weight ratio of Z items and say if joined to Y items.
 - iii. The perimeter fence marks the boundary of the Establishment. It is not necessarily the "Danger Building" Fence.
 - iv. Sub Offices or Auxiliary Workshops within the Outside Quantity Distance, (see Section 6, Appendix 6C of Av.P42 Revised 1975) will be entered at E and described in more detail at 1 overleaf.
 - v. Mention should be made here of all other occupied buildings within the OQD except those in Classes A & D which have already been considered.
- An occupied building is one that is normally occupied during working hours, as distinct from one occasionally visited.
- vi. The detail of buildings and distances shown below should be checked to ensure no change has taken place before requesting an extension to the period covered by existing relaxation.

Establishment - <p style="text-align: center;">PERME Waltham Abbey</p>				Building No. N531 (if grouped with other rooms or buildings, give details)	
Use	Protective State - Traversed (T) or Untraversed (U) - State type of Traverse, or if (U), construction of building, walls and roof	UN HAZARD CLASS	COMPATI- BILITY GROUP	P R O P O S E D	
				Man Limit M&N (Note i)	Explosive Limit (Note ii) (Kgs)
Experimental nitration	T, earth	1.1	D	M3 N2	10

If this is to replace an existing limit, please state date present limit approved. 18-11-68

Explanatory notes	Factor influencing Explosives limit	Distance in Metres	Number and use of building	T or U	Workers present M & N	For C.S.O. use
	1	2	3	4	5	6
iii	Inside Perimeter Fence A. Nearest Explosives Storage Unit (a) traversed (b) untraversed	47	N532 Magazine	T earth	M4 N2	
iv	B. Main Office	67	Proposed GC Labs & Offices	U		
iv	C. Main Engineering Workshop	357	G408 BWD Workshop	U		
	D. Nearest Explosives Process Building (a) traversed (b) untraversed	62	N534 Explosives processing Pilot Plant	T earth	4	
iv) v)	E. Give numbers of all other occupied buildings within the OQD and give details at 1 overleaf	25	Nil			
	Outside Perimeter Fence F. Nearest building (dwelling house, church, etc.)	210 210	Quinton Hill Farm Bungalows at end of Lodge Lane			
	G. Nearest road, railway, canal, river.	162	A112			

Date 24/11/78 Signature [Signature] Head of Establishment

Unrelaxed Explosive Limits

Category H.D. 1-1 - 10Kg
Limit (Kgs)
Date 24/11/78 Chief Safety Officer [Signature]

See overleaf for relaxations (where appropriate).

for C.S.O. use

1. Details of Buildings shown at E overleaf.

Building No.	Use	Distance in metres	T or U	Workers present M & N	Remarks	Leave this column for C.S.O.

2. Brief reference to any factors influencing the relaxation such as special procedures or written instructions that counter the additional potential hazard of the building:-

--

3. Relaxation approved.

Category	I	Y	Z	ZZ	Period		Signature
					from	to	
Limit (Kgs)							Chief Safety Officer _____ Date _____

Relaxation Extended (See Note vi).

Category	I	Y	Z	ZZ	Period		Signature
					from	to	
Limit (Kgs)							Chief Safety Officer _____ Date _____

Relaxation Extended (See Note vi).

Category	I	Y	Z	ZZ	Period		Signature
					from	to	
Limit (Kgs)							Chief Safety Officer _____ Date _____

EXPLANATORY NOTES -

- i. Both the maximum permitted Man Limit (M) and the number normally present (N) are required.
- ii. State quantity of explosive in each Hazard Division.
- iii. The perimeter fence marks the boundary of the Establishment. It is not necessarily the "Danger Building" Fence.
- iv. An occupied building is one that is normally occupied during working hours, as distinct from one occasionally visited.
- v. The detail of buildings and distances shown below should be checked to ensure no change has taken place before requesting an extension to the period covered by existing relaxation.

Establishment - <u>PERME Waltham Abbey</u>				Building No. <u>N532</u> (If grouped with other rooms or buildings, give details)	
Use	Protective State - Traversed (T) or Untraversed (U) - State type of Traverse, and construction of building, walls and roof	Hazard Divisions	Compatibility Groups	P R O P O S E D	
				Man Limit M&N (Note i)	Explosive Limit (Note ii) (Kgs)
Ready-use Explosive storehouse	T Earth Steel frame with sheet asbestos cladding.	1.1.	D	M3N0	(200 (4 x 50)

If this is to replace an existing limit, please state date present limit approved. 25-7-68

Explanatory notes ,	Factor influencing Explosives limit	Distance In Metres	Number and use of building	T or U		Workers present M & N	For C.S.O. use
				4	5		
iii	Inside Perimeter Fence A. Nearest Explosives Storage Unit (a) traversed (b) untraversed	125	G 433 Locker Mag.	U		M3N0	
iv	B. Main Office	92	G 441 Main Admin Offices	U		N16	
iv	C. Main Engineering Workshop	320	G 408 Services Workshop	U		N20	
	D. Nearest Explosives Process Building (a) traversed and (b) untraversed	46 152	N 536 EXPlosives Process (experimental) N 550 Composite Propellant Manufacture	T U		M3N2 M6N3	
iv)	E. Give numbers of all occupied non-explosive buildings within the OQD and give details at 1 overleaf	180	N 513 N 531 N 509 N 534 G 431 G 432				
	Outside Perimeter Fence F. Nearest building (dwelling house, church, etc.)	300	Beechfield Walk housing estate				
	G. Nearest road, railway, canal, river.	190	M 25				

Date 7-3-84 Signature ATBabs pp. Head of Establishment

Unrelaxed Explosive Limits (leave blank for CSO's use)

PROPOSED LIMITS APPROVED

for the storage of boxed explosives substances only.

Date 18-1-85 Chief Safety Officer N Jm Rees

See overleaf for relaxations (where appropriate)

1. Details of Buildings shown at E overleaf. (A sketch of the area should be attached)

Building No.	Use	Distance in metres	T or U	Workers present H & H	Remarks	Leave this column for C.S.O.
N 513	Non-explosive processing	90	U	M5N3		
N 509	Canteen	132	U	N6		
G 431	Main Stores & Offices	172	U	N 20		
G 432	Directors Offices, & Process Research offices and labs.	138	U	N 26		
N 531	Non-explosive process (currently used as inert store)	42	U	-		
N 534	Non-explosive hazardous materials processing	100	U	M4N3		

2. Brief reference to any factors influencing the relaxation such as special procedures or written instructions that counter the additional potential hazard of the building:-

9" R/C cruciform structure inside building to break down contents to 4 x 50kg. risk

3.

Is the fire cover in accordance with the recommended Establishment Fire Risk Classification?	Yes
--	-----

4. Relaxation approved

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

Relaxation Extended (See Note v).

Hazard Division	Period		Signature
	From	To	
Li-it (Kgs)			Chief Safety Officer _____ Date _____

MINISTRY OF TECHNOLOGY EXPLOSIVES LIMITS

ESTABLISHMENT - ERDE BUILDING No. N.533 ^{Control Room}
 N.534
 (STATE BUILDINGS WITH WHICH GROUPED - IF ANY)

(Where appropriate).

Use	Protective State - Traversed (T) or Untraversed (U) - State type of Traverse, or, if (U), construction of building	Safety Distance Category	Explosives Group (s)	P R O P O S E D	
				MAN LIMIT	EXPLOSIVES LIMIT (lbs)
Experimental Processing	T. Earth	ZZ	-	4	1,000 in N.534 only.

If this is to replace an existing limit, please state date present limit approved - 7.5.1959

Factor Influencing Explosives Limit 1	Distance in feet 2	No. and use of building 3	T or U 4	Man Limit 5	For C.S.O. use 6
INSIDE PERIMETER FENCE					
A. Nearest Explosives Storage Unit (a) traversed (b) untraversed	335	N.532 Magazine	T Earth	3	> 50,000
B. Main Office	825	G.432 SCE Offices	U	-	7,700
C. Main Engineering Workshop	1,120	G.418 BWD Workshop	U	-	10,200
D. Nearest Process Building (If untraversed state construction)	150	N.537/8/9 Experimental Processing	T Earth	5	1,600
E. Any other occupied building nearer than D	-	-	-	-	
OUTSIDE PERIMETER FENCE					
F. Nearest Building (Dwelling house Church, etc.)	590	Quinton Hill Farm		3,200	
G. Nearest Road, Railway, Canal, River. (Give details)	335	A.112		1,800	

Date 1/7/68 Signature *[Signature]* Head of Establishment

UNRELAXED EXPLOSIVES LIMITS

Category	X	Y	Z	ZZ
(i) Limit (lbs)	-	-	-	1000
(ii) Special Cases covered (without relaxation)				

SEE OVERLEAF FOR RELAXATIONS (Where appropriate)
 Gen. Form 49 (Revised)

[Signature]
 Chief Safety Officer
 25.7.68 (Date)

WHERE THE LIMIT REQUIRED EXCEEDS THE UNRELAXED LIMITS (OVERLEAF) THE FOLLOWING
ADDITIONAL INFORMATION IS REQUIRED

(1) Charge/Weight Ratio of Category Z Items

ITEM	CHARGE/WT. RATIO	%
_____	_____	%
_____	_____	%
_____	_____	%

- (2) (i) Distance for Peak Pressure of 15 p.s.i. ft. (Cats. Z and ZZ only)
 (ii) Inside Storage Safety Distance ft. (Per Explosives Regs. 1960)

(3) Buildings within either of the distances at (2)

Building No.	Use	Distance (ft)	T or U	Man Limit	Remarks

(Include all buildings other than latrines and Services Installations normally unattended)

- (4) Any other Factors Influencing Relaxation
 (e.g. Maximum Unit risk - nature of explosives (RDX/TNT, Neonite, S.R. etc.) -
 attach sketch showing distribution of explosive within building)

(5) RELAXATION APPROVED

Category	<u>X</u>	<u>Y</u>	<u>Z</u>	<u>ZZ</u>	Period		Signature
					From	To	
<u>LIMIT</u> (<u>lbs</u>)							Chief Safety Officer (Date)
<u>RELAXATION EXTENDED</u> <u>LIMIT</u> (<u>lbs</u>)							Chief Safety Officer (Date)
<u>LIMIT</u> (<u>lbs</u>)							Chief Safety Officer (Date)

EXPLANATORY NOTES -

- i. Both the maximum permitted Man Limit (M) and the number normally present (N) are required.
- ii. State quantity of explosive in each Hazard Division.
- iii. The perimeter fence marks the boundary of the Establishment. It is not necessarily the "Danger Building" Fence.
- iv. An occupied building is one that is normally occupied during working hours, as distinct from one occasionally visited.
- v. The detail of buildings and distances shown below should be checked to ensure no change has taken place before requesting an extension to the period covered by existing relaxation.

Establishment - ROF, Waltham Abbey, Essex		Building No. N535 (with N536) (If grouped with other rooms or buildings, give details)			
Use	Protective State - Traversed (T) or Untraversed (U) - State type of Traverse, and construction of building, walls and roof	UN Hazard Divisions Class	Compatibility Groups	PROPOSED	
				Man Limit M&N (Note i)	Explosive Limit (Note ii) (Kgs)
Experimental Explosive Processing	T, Earth Sheet Asbestos	1.1	D	M3, N2	10 kg

If this is to replace an existing limit, please state date present limit approved. 24.4.78

Explanatory notes ,	Factor influencing Explosives limit 1	Distance in Metres 2	Number and use of building 3	T or U 4	Workers present M & N 5	For C.S.O. use 6
iii	A. Inside Perimeter Fence Nearest Explosives Storage Unit (a) traversed (b) untraversed	52	N532, Explosive Storehouse (450 kg, 1.1)	T	-	
iv	B. Main Office	176	G441 Main Office	U	24	
iv	C. Main Engineering Workshop	202	N509, Canteen	U		
	D. Nearest Explosives Process Building (a) traversed and (b) untraversed	45	N537/8/9, Experimental Nitration	T	M3, N2	
iv)	E. Give numbers of all occupied non-explosive buildings within the OQD and give details at 1 overleaf	108	N534, N557, N531, N537, N538, N539			
	Outside Perimeter Fence F. Nearest building (dwelling house, church, etc.)	202 225	Quinton Hill Farm Bungalows, end of Beechfield Walk			
	G. Nearest road, railway, canal, river.	178	A112 Sewardstone Road			

Date 10-10-84 Signature A.P. Pelt Head of Establishment

Unrelaxed Explosive Limits (leave blank for CSO's use)

PROPOSED LIMITS APPROVED

Date 18-1-85 Chief Safety Officer N. J. M. Rees

See overleaf for relaxations (where appropriate)

1. Details of Buildings shown at E overleaf. (A sketch of the area should be attached)

Building No.	Use	Distance in metres	T or U	Workers present M & N	Remarks	Leave this column for C.S.O.
N534	Experimental Processing	65	T	M4, N2		
N557	NG Extraction and Manufacture	95	T	M7, N4		
N531	Experimental Nitration	52	T	M3, N2		
N540	Drying of HE	47	T	-		

2. Brief reference to any factors influencing the relaxation such as special procedures or written instructions that counter the additional potential hazard of the building:-

Only 1 of N535 or N536 in use as a Process building at a time, other may be used as in process store for 10 kg HD 1.1, or as control room.

3.

Is the fire cover in accordance with the recommended Establishment Fire Risk Classification?	YES
--	-----

4. Relaxation approved

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

Relaxation Extended (See Note v).

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

1. Details of Buildings shown at E overleaf. (A sketch of the area should be attached)

Building No.	Use	Distance in metres	T or U	Workers present M & N	Remarks	Leave this column for C.S.O.
N534	Experimental Processing	65	T	M4, N2		
N557	NG Extraction and Manufacture of Nitrate Esters	95	T	M7, N4		

2. Brief reference to any factors influencing the relaxation such as special procedures or written instructions that counter the additional potential hazard of the building:-

Only 1 of N535 or N536 in use as process building at a time, other may be used as in process store for 10 kg HD 1.1, or as control room.

3.

Is the fire cover in accordance with the recommended Establishment Fire Risk Classification?	YES
--	-----

4. Relaxation approved

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

Relaxation Extended (See Note v).

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

EXPLANATORY NOTES -

- i. Both the maximum permitted Man Limit (M) and the number normally present (N) are required.
- ii. State quantity of explosive in each Hazard Division.
- iii. The perimeter fence marks the boundary of the Establishment. It is not necessarily the "Danger Building" Fence.
- iv. An occupied building is one that is normally occupied during working hours, as distinct from one occasionally visited.
- v. The detail of buildings and distances shown below should be checked to ensure no change has taken place before requesting an extension to the period covered by existing relaxation.

Establishment - <p style="text-align: center;">PERME Waltham Abbey</p>		Building No. N537/N538/N539 (If grouped with other rooms or buildings, give details)			
Use	Protective State - Traversed (T) or Untraversed (U) - State type of Traverse, and construction of building, walls and roof	Hazard Divisions	Compatibility Groups	P R O P O S E D	
				Man Limit M&N (Note i)	Explosive Limit (Note ii) (Kgs)
Experimental Processing	T Earth. Three small buildings close together, but separately traversed.	1.1	D	M6 N4 (M3 N2 for any one building)	45

If this is to replace an existing limit, please state date present limit approved. 1.7.68

Explanatory notes,	Factor influencing Explosives limit 1	Distance in Metres 2	Number and use of building 3	T or U 4	Workers present	For C.S.O. use 6
					M & N 5	
iii	Inside Perimeter Fence A. Nearest Explosives Storage Unit (a) traversed (b) untraversed	110	N532 Explosives Storehouse	T	M3 N0	
iv	B. Main Office	190	G445 DO (Under construction)	U	N10	
iv	C. Main Engineering Workshop	215	G440 Elect & Glass Eng w/s	U	N12	
	D. Nearest Explosives Process Building (a) traversed and (b) untraversed	36	N540 Experimental Processing (Drying)	T	M4 N0	
iv)	E. Give numbers of all occupied non-explosive buildings within the OOD and give details at 1 overleaf	-				
	Outside Perimeter Fence F. Nearest building (dwelling house, church, etc.)	127	Quinton Hill Farm			
	G. Nearest road, railway, canal, river.	75	A112 (realignment will give 95 m)			

Date 30/11/81 Signature D.H. Newman Head of Establishment

Unrelaxed Explosive Limits (leave blank for CSO's use)

HD 1.1D - 45Kgp with the restriction in Para 2

Date 18-12-81 Chief Safety Officer N.M. Rees

See overleaf for relaxations (where appropriate)

1. Details of Buildings shown at E overleaf. (A sketch of the area should be attached)

Building No.	Use	Distance in metres	T or U	Workers present M & N	Remarks	Leave this column for C.S.O.

2. Brief reference to any factors influencing the relaxation such as special procedures or written instructions that counter the additional potential hazard of the building:-

Steel "torpedo" netting erected to give 45° cover to east. Normally only one building used for process at one time. 10 kg limit per building for process, but N537/N538 to be used for storage when not in process use, up to max of 45 kg for 3 buildings.

3.

Is the fire cover in accordance with the recommended Establishment Fire Risk Classification?	Yes
--	-----

4. Relaxation approved

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

Relaxation Extended (See Note v).

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

EXPLANATORY NOTES -

- i. Both the maximum permitted Man Limit (M) and the number normally present (N) are required.
- ii. State quantity of explosive in each Hazard Division.
- iii. The perimeter fence marks the boundary of the Establishment. It is not necessarily the "Danger Building" Fence.
- iv. An occupied building is one that is normally occupied during working hours, as distinct from one occasionally visited.
- v. The detail of buildings and distances shown below should be checked to ensure no change has taken place before requesting an extension to the period covered by existing relaxation.

Establishment - PERME, Waltham Abbey,		Building No. N540 (If grouped with other rooms or buildings, give details)			
Use	Protective State - Traversed (T) or Untraversed (U) - State type of Traverse, and construction of building, walls and roof	Hazard Divisions	Compatibility Groups	P R O P O S E D	
				Man Limit M&N (Note i)	Explosive Limit (Note ii) (Kgs)
Oven drying of H.E	T, earth. Additional Torpedo net traverse to east. Sheet asbestos Walls and roof.	1.1	D	M 3 N 0	100

If this is to replace an existing limit, please state date present limit approved. 17 12 74

Explanatory notes,	Factor influencing Explosives limit	Distance in Metres	Number and use of building	T or U	Workers present M & N	For C.S.O. use
	1	2	3	4	5	6
iii	Inside Perimeter Fence A. Nearest Explosives Storage Unit (a) traversed (b) untraversed	105	N532 Explosive Store unit	T	M3 NO	
iv	B. Main Office	240	N509 Canteen	U		
iv	C. Main Engineering Workshop	220	G444/5 Engineering Offices	U	M26 N20	
	D. Nearest Explosives Process Building (a) traversed and (b) untraversed	40	N550	U	M6 N4	
iv)	E. Give numbers of all occupied non-explosive buildings within the OQD and give details at 1 overleaf	-	-			
	Outside Perimeter Fence F. Nearest building (dwelling house, church, etc.)	170	Quinton Hill Farm			
	G. Nearest road, railway, canal, river.	143	A112			

Date 27-8-82 Signature A. Kelly Head of Establishment

Unrelaxed Explosive Limits (leave blank for CSO's use)

PROPOSED LIMITS APPROVED

Date 22-12-82 Chief Safety Officer N. Imrees

See overleaf for relaxations (where appropriate)

1. Details of Buildings shown at E overleaf. (A sketch of the area should be attached)

Building No.	Use	Distance in metres	T or U	Workers present M & N	Remarks	Leave this column for C.S.O.

2. Brief reference to any factors influencing the relaxation such as special procedures or written instructions that counter the additional potential hazard of the building:-

Building divided internally by light partition wall. East bay contains oven against East wall, with external torpedo net traverse giving 45° cover to east. West Bay used as equipment store (no explosives)

3.

Is the fire cover in accordance with the recommended Establishment Fire Risk Classification?	Yes
--	-----

4. Relaxation approved

Hazard Division		Period		Signature
		From	To	
Limit (Kgs)				Chief Safety Officer _____ Date _____

Relaxation Extended (See Note v).

Hazard Division		Period		Signature
		From	To	
Limit (Kgs)				Chief Safety Officer _____ Date _____

EXPLANATORY NOTES -

- i. Both the maximum permitted Man Limit (M) and the number normally present (N) are required.
- ii. State quantity of explosive in each Hazard Division.
- iii. The perimeter fence marks the boundary of the Establishment. It is not necessarily the "Danger Building" Fence.
- iv. An occupied building is one that is normally occupied during working hours, as distinct from one occasionally visited.
- v. The detail of buildings and distances shown below should be checked to ensure no change has taken place before requesting an extension to the period covered by existing relaxation.

Establishment - ROF, Waltham Abbey		Building No. N541 (If grouped with other rooms or buildings, give details)			
Use	Protective State - Traversed (T) or Untraversed (U) - State type of Traverse, and construction of building, walls and roof	Hazard Divisions	Compatibility Groups	P R O P O S E D	
				Man Limit M&N (Note i)	Explosive Limit (Note ii) (Kgs)
Experimental Explosive Processing	U. Thick R/C walls and roof, blow out wall firing west with R/C blast wall	1.1	0 DOR	M 4 N 3	100

If this is to replace an existing limit, please state date present limit approved. -

Explanatory notes,	Factor influencing Explosives limit 1	Distance in Metres 2	Number and use of building 3	T or U 4	Workers present	For C.S.O. use 6
					M & N 5	
iii	A. Nearest Explosives Storage Unit (a) traversed (b) untraversed	132	N 532 Ready Use Store	T	M3 NO	
		206	N 570 Oven Test Facility	U	M2 NO	
iv	B. Main Office	98	N 509 Canteen	U		
iv	C. Main Engineering Workshop	275	G 408 Services Workshop	U	M30	
		90	N 557 NG Extraction	T	M9 N3	
iv	D. Nearest Explosives Process Building (a) traversed and (b) untraversed	128	N 549 Wet Mix	U	M8 N6	
		180	N 506 G 430 G 458 N 513 G 431 G 432 N 505 G 441			
	E. Give numbers of all occupied non-explosive buildings within the OQD and give details at 1 overleaf					
	F. Outside Perimeter Fence Nearest building (dwelling house, church, etc.)	330	Quinton Hill Farm			
	G. Nearest road, railway, canal, river.	237	M25			

Date 17-5-84 Signature A. B. Bell Head of Establishment

Unrelaxed Explosive Limits (leave blank for CSO's use)

PROPOSED LIMITS APPROVED

Date 18-1-85 Chief Safety Officer N. J. Rees

See overleaf for relaxations (where appropriate)

1. Details of Buildings shown at E overleaf. (A sketch of the area should be attached)

Building No.	Use	Distance in metres	T or U	Workers present M & N	Remarks	Leave this column for C.S.O.
N 506	Composite Materials Labs and Offices	148	U	N 8		
N 505	Typing Pool and Telephone Exchange	168	U	N12		
N 513	Charcoal Preparation	68	U	N 3		
G 430	Composite Materials Process	155	U	N 8		
G 431	Stores	155	U	N17		
G 441	Main Admin	120	U	N15		
G 458	Shift House	158	U	N 2		
G 432	Directors Building and Labs	125	U	N25		

2. Brief reference to any factors influencing the relaxation such as special procedures or written instructions that counter the additional potential hazard of the building:-

Purpose-built PSA building designed to contain. Any debris will be ejected to west.

3.

Is the fire cover in accordance with the recommended Establishment Fire Risk Classification?	Yes
--	-----

4. Relaxation approved

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

Relaxation Extended (See Note v).

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

EXPLANATORY NOTES -

- i. Both the maximum permitted Man Limit (M) and the number normally present (N) are required.
- ii. State quantity of explosive in each Hazard Division.
- iii. The perimeter fence marks the boundary of the Establishment. It is not necessarily the "Danger Building" Fence.
- iv. An occupied building is one that is normally occupied during working hours, as distinct from one occasionally visited.
- v. The detail of buildings and distances shown below should be checked to ensure no change has taken place before requesting an extension to the period covered by existing relaxation.

Establishment - PERME Waltham Abbey				Building No. N 545 (If grouped with other rooms or buildings, give details)	
Use	Protective State - Traversed (T) or Untraversed (U) - State type of Traverse, and construction of building, walls and roof	Hazard Divisions	Compatibility Groups	P R O P O S E D	
				Man Limit M&N (Note i)	Explosive Limit (Note ii) (Kgs)
Explosives Storehouse	U. Brick "Unshield" light roof Divided into 2 Bays by brick wall which gives seperate roofs	1.3	C	M4N0	1000 (Unit risk 500)

If this is to replace an existing limit, please state date present limit approved.

Explanatory notes	Factor influencing Explosives limit 1	Distance in Metres 2	Number and use of building 3	T or U 4	Workers present M & N 5	For C.S.O. use 6
iii	Inside Perimeter Fence A. Nearest Explosives Storage Unit (a) traversed (b) untraversed	50	N540 Explosive Drying	T	M3N0	
iv	B. Main Office	105	N562 P1 Offices	U	M33N27	
iv	C. Main Engineering Workshop	250	P754 Fire Station	U	M14N10	
	D. Nearest Explosives Process Building (a) traversed and (b) untraversed	40	N550 Composite Propellant Processing	Low T	M&N6	
iv)	E. Give numbers of all occupied non-explosive buildings within the OQD and give details at 1 overleaf					
	Outside Perimeter Fence F. Nearest building (dwelling house, church, etc.)	212	Quinton Hill Farm			
	G. Nearest road, railway, canal, river.	175	A 112			

Date 14-4-83 Signature A. Bells pp. Head of Establishment

Unrelaxed Explosive Limits (leave blank for CSO's use)

PROPOSED LIMITS APPROVED

Date 18-8-83 Chief Safety Officer N. J. R. R. R.

See overleaf for relaxations (where appropriate)

1. Details of Buildings shown at E overleaf. (A sketch of the area should be attached)

Building No.	Use	Distance in metres	T or U	Workers present H & H	Remarks	Leave this column for C.S.O.

2. Brief reference to any factors influencing the relaxation such as special procedures or written instructions that counter the additional potential hazard of the building:-

Storehouse for N 550. 1 Bay will be used for partly mixed Propellant(without curing agent) the other for cured rocket motors awaiting despatch.

3.

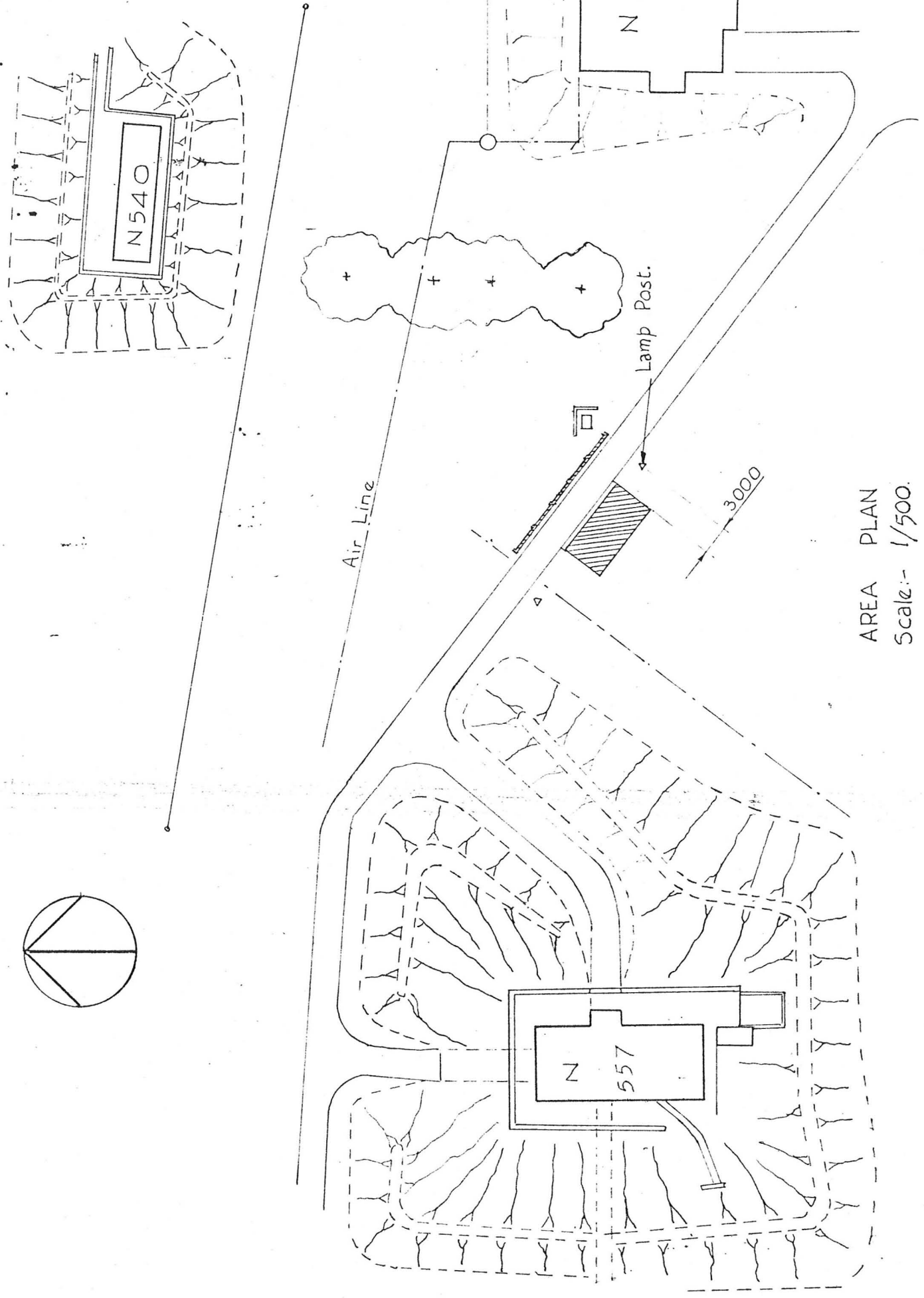
Is the fire cover in accordance with the recommended Establishment Fire Risk Classification?	Yes
--	-----

4. Relaxation approved

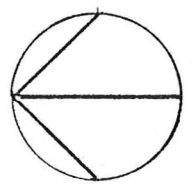
Hazard Division	Limit (Kgs)	Period		Signature
		From	To	
				Chief Safety Officer _____ Date _____

Relaxation Extended (See Note v).

Hazard Division	Limit (Kgs)	Period		Signature
		From	To	
				Chief Safety Officer _____ Date _____



AREA PLAN
Scale:- 1/500.



EXPLANATORY NOTES -

- i. Both the maximum permitted Man Limit (M) and the number normally present (N) are required.
- ii. State quantity of explosive in each Hazard Division.
- iii. The perimeter fence marks the boundary of the Establishment. It is not necessarily the "Danger Building" Fence.
- iv. An occupied building is one that is normally occupied during working hours, as distinct from one occasionally visited.
- v. The detail of buildings and distances shown below should be checked to ensure no change has taken place before requesting an extension to the period covered by existing relaxation.

Establishment -		PERME, WALTHAM ABBEY ESSEX EN9 1BP		Building No. N547 (If grouped with other rooms or buildings, give details)	
Use	Protective State - Traversed (T) or Untraversed (U) - State type of Traverse, and construction of building, walls and roof	Hazard Divisions	Compatibility Groups	PROPOSED	
				Man Limit M&N (Note i)	Explosive Limit (Note ii) (Kgs)
Propellant Storehouse	T Earth. 13" Brick walls, sheet zinc covered timber roof	1.3	C	M5 NO	6000

If this is to replace an existing limit, please state date present limit approved. 25-7-68

Explanatory notes ,	Factor influencing Explosives limit 1	Distance in Metres 2	Number and use of building 3	T or U 4	Workers present	For C.S.O. use 6
					M & N 5	
iii	A. Nearest Explosives Storage Unit (a) traversed (b) untraversed	62	N579 Casting Liquid Store N586 Waste Propellant Store	T	M3 NO M2 NO	
		45		U		
iv	B. Main Office	205	N509 Canteen	U		
iv	C. Main Engineering Workshop	255	G412 Carpenters Workshop	U	N16	
		87		T		
	D. Nearest Explosives Process Building (a) traversed and (b) untraversed	100	N548 Dry Mixing of Cordite Paste N549 Wet Mixing of Cordite Paste	U	M10 N8	
iv)	E. Give numbers of all occupied non-explosive buildings within the OQD and give details at 1 overleaf	120	-			
	Outside Perimeter Fence					
	F. Nearest building (dwelling house, church, etc.)	> 400				
	G. Nearest road, railway, canal, river.	> 400				

Date 16 February 1981 Signature B. H. Newman Head of Establishment

Unrelaxed Explosive Limits (leave blank for CSO's use)

HJ1-3c - 6000Kg.

Date 23-3-81 Chief Safety Officer N. ImRees

See overleaf for relaxations (where appropriate)

1. Details of Buildings shown at E overleaf. (A sketch of the area should be attached)

Building No.	Use	Distance in metres	T or U	Workers present M & N	Remarks	Leave this column for C.S.O.

2. Brief reference to any factors influencing the relaxation such as special procedures or written instructions that counter the additional potential hazard of the building:-

--

3.

Is the fire cover in accordance with the recommended Establishment Fire Risk Classification?	Yes
--	-----

4. Relaxation approved

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

Relaxation Extended (See Note v).

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

EXPLANATORY NOTES -

- i. Both the maximum permitted Man Limit (M) and the number normally present (N) are required.
- ii. State quantity of explosive in each Hazard Division.
- iii. The perimeter fence marks the boundary of the Establishment. It is not necessarily the "Danger Building" Fence.
- iv. An occupied building is one that is normally occupied during working hours, as distinct from one occasionally visited.
- v. The detail of buildings and distances shown below should be checked to ensure no change has taken place before requesting an extension to the period covered by existing relaxation.

Establishment -		PERME, WALTHAM ABBEY ESSEX EN9 1BP		Building No. N548 (If grouped with other rooms or buildings, give details)	
Use	Protective State - Traversed (T) or Untraversed (U) - State type of Traverse, and construction of building, walls and roof	Hazard Divisions	Compatibility Groups	PROPOSED	
				Man Limit M&N (Note i)	Explosive Limit (Note ii) (Kgs)
a) Sieving of Cordite Paste B) Preparing Paste & RDX for Truck Drying & bagging after	T, Earth. Sheet asbestos clad B & F roof	1.1	C and D	M5 N4	250

If this is to replace an existing limit, please state date present limit approved. 25-7-68

Explanatory notes,	Factor influencing Explosives limit 1	Distance in Metres 2	Number and use of building 3	T or U 4	Workers present M & N 5	For C.S.O. use 6
iii	Inside Perimeter Fence A. Nearest Explosives Storage Unit (a) traversed (b) untraversed	87 137	N547 Propellant Storehouse N586 Waste Propellant Store	T U	M5 NO M2 NO	
iv	B. Main Office	140	N509 Canteen	U		
iv	C. Main Engineering Workshop	265	G412 Carpenters Workshop	U	N16	
	D. Nearest Explosives Process Building (a) traversed and (b) untraversed	52	N549 Wet Mixing of Cordite Paste	U	M10 N8	
iv)	E. Give numbers of all occupied non-explosive buildings within the OQD and give details at 1 overleaf	-				
	Outside Perimeter Fence F. Nearest building (dwelling house, church, etc.)	385	Quinton Hill Farm			
	G. Nearest road, railway, canal, river.	340	A112			

Date 16 February 1981 Signature B. H. Newman Head of Establishment

Unrelaxed Explosive Limits (leave blank for CSO's use)

H/D 1.1 C and D - 250 Kgs

Date 23-3-81 Chief Safety Officer N. L. M. Rice

See overleaf for relaxations (where appropriate)

1. Details of Buildings shown at E overleaf. (A sketch of the area should be attached)

Building No.	Use	Distance in metres	T or U	Workers present M & N	Remarks	Leave this column for C.S.O.

2. Brief reference to any factors influencing the relaxation such as special procedures or written instructions that counter the additional potential hazard of the building:-

Truck area seperated from working area by 18" wall

3.

Is the fire cover in accordance with the recommended Establishment Fire Risk Classification?

Yes

4. Relaxation approved

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

Relaxation Extended (See Note v).

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

E. MANDATORY NOTES -

- i. Both the maximum permitted Man Limit (M) and the number normally present (N) are required.
- ii. State quantity of explosive in each Hazard Division.
- iii. The perimeter fence marks the boundary of the Establishment. It is not necessarily the "Danger Building" Fence.
- iv. An occupied building is one that is normally occupied during working hours, as distinct from one occasionally visited.
- v. The detail of buildings and distances shown below should be checked to ensure no change has taken place before requesting an extension to the period covered by existing relaxation.

Establishment - ROF Waltham Abbey		Building No. N 549 (If grouped with other rooms or buildings, give details)			
Use	Protective State - Traversed (T) or Untraversed (U) - State type of Traverse, and construction of building, walls and roof	Hazard Divisions	Compatibility Groups	PROPOSED	
				Man Limit M&N (Note i)	Explosive Limit (Note ii) (Kgs)
a) N/G extraction					
b) Wet mixing of cordite paste.					
c) Felting of paste	a) T, earth	1.1.	D	M8N6	300
d) Mixing and felting of CCC	b) R/C, wood roof				
	c) U. Brick,	1.3.	C		550
	d) wood roof				

If this is to replace an existing limit, please state date present limit approved. 25-7-68

Explanatory notes, 1	Factor influencing Explosives limit 1	Distance in Metres 2	Number and use of building 3	T or U 4	Workers present M & N 5	For C.S.O. use 6
iii	Inside Perimeter Fence A. Nearest Explosives Storage Unit (a) traversed (b) untraversed	96 128	N 547 Finished charge storage N 586 Waste propellant store	T U	M5N0 M2N0	
iv	B. Main Office	190	N 562 Branch office	U	M33N27	
iv	C. Main Engineering Workshop	350	G 408 Services Workshop	U	N20	
	D. Nearest Explosives Process Building (a) traversed and (b) untraversed	48 22	N 548 RDX preparation for truck drying. N 574 Wash water settling	T U	M4N2 M3N0	
iv)	E. Give numbers of all occupied non-explosive buildings within the OGD and give details at 1 overleaf		N 509			
	Outside Perimeter Fence F. Nearest building (dwelling house, church, etc.)	350	Quinton Hill Farm			
	G. Nearest road, railway, canal, river.	300 350	A 112 M 25			

Date 25-5-84 Signature *[Signature]* Head of Establishment

Unrelaxed Explosive Limits (leave blank for CSO's use)

PROPOSED LIMITS APPROVED

subject to a total man limit of 8 for N 549, N 548 and N 574.

Date 18-1-85 Chief Safety Officer *[Signature]*

See overleaf for relaxations (where appropriate)

1. Details of Buildings shown at E overleaf. (A sketch of the area should be attached)

Building No.	Use	Distance in metres	T or U	Workers present M & N	Remarks	Leave this column for C.S.O.
N 509	Canteen	210	U			

2. Brief reference to any factors influencing the relaxation such as special procedures or written instructions that counter the additional potential hazard of the building:-

N 574 rarely occupied. Personnel in N 548 & N 574 are included in limit for M 549.

3. Is the fire cover in accordance with the recommended Establishment Fire Risk Classification? Yes

4. Relaxation approved

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

Relaxation Extended (See Note v).

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

EXPLANATORY NOTES -

- i. Both the maximum permitted Man Limit (M) and the number normally present (N) are required.
- ii. State quantity of explosive in each Hazard Division.
- iii. The perimeter fence marks the boundary of the Establishment. It is not necessarily the "Danger Building" Fence.
- iv. An occupied building is one that is normally occupied during working hours, as distinct from one occasionally visited.
- v. The detail of buildings and distances shown below should be checked to ensure no change has taken place before requesting an extension to the period covered by existing relaxation.

Establishment - PERME Waltham Abbey		Building No. N550 (If grouped with other rooms or buildings, give details)			
Use	Protective State - Traversed (T) or Untraversed (U) - State type of Traverse, and construction of building, walls and roof	Hazard Divisions	Compatibility Groups	PROPOSED	
				Man Limit M&N (Note i)	Explosive Limit (Note ii) (Kgs)
Composite Propellant Manufacture	Low T. Sheet asbestos clad walls & roof. Internal dividing walls 13½" brick.	1.3	C	M8 N6	950 (Unit risk 350)

If this is to replace an existing limit, please state date present limit approved. 17.3.81

Explanatory notes, 1	Factor influencing Explosives limit 1	Distance in Metres 2	Number and use of building 3	T or U 4	Workers present M & N 5	For C.S.O. use 6
iii	Inside Perimeter Fence A. Nearest Explosives Storage Unit (a) traversed (b) untraversed	52	N553 Curing of CDB Charges	T	M4 N0	
iv	B. Main Office	225	P754 Fire Station	U	M14N10	
iv	C. Main Engineering Workshop	>400				
	D. Nearest Explosives Process Building (a) traversed and (b) untraversed	40	N554 Charge Breakdown	T	M4 N3	
iv)	E. Give numbers of all occupied non-explosive buildings within the OQD and give details at 1 overleaf	60	-			
	Outside Perimeter Fence F. Nearest building (dwelling house, church, etc.)	135	Quinton Hill Farm			
	G. Nearest road, railway, canal, river.	105	A112			

Date 22-7-82 Signature A. J. Bell Head of Establishment

Unrelaxed Explosive Limits (leave blank for CSO's use)

PROPOSED LIMITS APPROVED

Date 22-12-82 Chief Safety Officer N. J. M. Reay

See overleaf for relaxations (where appropriate)

1. Details of Buildings shown at E overleaf. (A sketch of the area should be attached)

Building No.	Use	Distance in metres	T or U	Workers present M & N	Remarks	Leave this column for C.S.O.

2. Brief reference to any factors influencing the relaxation such as special procedures or written instructions that counter the additional potential hazard of the building:-

Divided internally into 3 bays.

West bay - Large mixer - 350 kg H.D 1.3
 Centre bay - Ammonium perchlorate ovens - 350 kg H.D 1.3
 East bay - Medium and small mixes, separated by 9" R/C wall - only 1 will be used at a time - 250 kg H.D 1.3

3.

Is the fire cover in accordance with the recommended Establishment Fire Risk Classification?

YES

4. Relaxation approved

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

Relaxation Extended (See Note v).

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

EXPLANATORY NOTES -

- i. Both the maximum permitted Man Limit (M) and the number normally present (N) are required.
- ii. State quantity of explosive in each Hazard Division.
- iii. The perimeter fence marks the boundary of the Establishment. It is not necessarily the "Danger Building" Fence.
- iv. An occupied building is one that is normally occupied during working hours, as distinct from one occasionally visited.
- v. The detail of buildings and distances shown below should be checked to ensure no change has taken place before requesting an extension to the period covered by existing relaxation.

Establishment -		PERME, WALTHAM ABBEY ESSEX EN9 1BP		Building No. N553 (If grouped with other rooms or buildings, give details)	
Use	Protective State - Traversed (T) or Untraversed (U) - State type of Traverse, and construction of building, walls and roof	Hazard Divisions	Compatibility Groups	PROPOSED	
				Man Limit M&N (Note i)	Explosive Limit (Note ii) (Kgs)
Curing of CDB charges and storage trials	T, Earth 9" Brick walls slate roof	1.3	C	M3 NO	340

If this is to replace an existing limit, please state date present limit approved. 25-7-68

Explanatory notes,	Factor influencing Explosives limit 1	Distance in Metres 2	Number and use of building 3	T or U 4	Workers present M & N 5	For C.S.O. use 6
iii	A. Nearest Explosives Storage Unit (a) traversed (b) untraversed	26 127	Proposed ready use magazine (2x 500kg 1.3) to North N549 NG Storage in Tundish Room	U T	M10N8	
iv	B. Main Office	55	N562 P1 Offices & Labs	U	M33N27	
iv	C. Main Engineering Workshop	205	P754 Fire Station	U	M14N10	
	D. Nearest Explosives Process Building (a) traversed and (b) untraversed	55 52	N556 Experimental Propellant Processing N569 Charge Breakdown & X-ray	T U	M4 N2 M6 N3	
iv)	E. Give numbers of all occupied non-explosive buildings within the OOD and give details at 1 overleaf					
	Outside Perimeter Fence F. Nearest building (dwelling house, church, etc.)	220	Quinton Hill Farm			
	G. Nearest road, railway, canal, river.	155	A112			

Date 16 February 1981 Signature B.H. Newman Head of Establishment

Unrelaxed Explosive Limits (leave blank for CSO's use)

HQ 1.3C - 340kg.

Date 17/3/81 Chief Safety Officer N.J.M. Rees

See overleaf for relaxations (where appropriate)

1. Details of Buildings shown at E overleaf. (A sketch of the area should be attached)

Building No.	Use	Distance in metres	T or U	Workers present M & N	Remarks	Leave this column for C.S.O.

2. Brief reference to any factors influencing the relaxation such as special procedures or written instructions that counter the additional potential hazard of the building:-

Very low frequency of occupancy by personnel
East Bay 4 ovens, max 50kg in any oven
West Bay 4 ovens, max 35kg in any oven
Bays seperated by 4½" brick wall.

3.

Is the fire cover in accordance with the recommended Establishment Fire Risk Classification?	Yes
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4. Relaxation approved

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

Relaxation Extended (See Note v).

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

EXPLANATORY NOTES -

- i. Both the maximum permitted Man Limit (M) and the number normally present (N) are required.
- ii. State quantity of explosive in each Hazard Division.
- iii. The perimeter fence marks the boundary of the Establishment. It is not necessarily the "Danger Building" Fence.
- iv. An occupied building is one that is normally occupied during working hours, as distinct from one occasionally visited.
- v. The detail of buildings and distances shown below should be checked to ensure no change has taken place before requesting an extension to the period covered by existing relaxation.

Establishment - Royal Ordnance, Waltham Abbey				Building No. N 554 (If grouped with other rooms or buildings, give details)	
Use	Protective State - Traversed (T) or Untraversed (U) - State type of Traverse, and construction of building, walls and roof	Hazard Divisions	Compatibility Groups	PROPOSED	
				Man Limit M&N (Note i)	Explosive Limit (Note ii) (Kgs)
Composite Propellant filling, charge cure & breakdown. Strand burning test.	Low T, earth. 9" brick, slate roof except west extension Sheet asbestos cladding.	1.3	C	M6N4	1000

If this is to replace an existing limit, please state date present limit approved. **17-3-81**

Explanatory notes,	Factor influencing Explosives limit 1	Distance in Metres 2	Number and use of building 3	T or U 4	Workers present M & N 5	For C.S.O. use 6
iii	A. Inside Perimeter Fence Nearest Explosives Storage Unit (a) traversed (b) untraversed	67	N 553 Curing of CDB charges.	T	M4N0	
iv	B. Main Office	180	P 754 Fire Station	U	M14N10	
iv	C. Main Engineering Workshop					
	D. Nearest Explosives Process Building (a) traversed and (b) untraversed	40	N 550 Composite Propellant Manufacture.			
iv)	E. Give numbers of all occupied non-explosive buildings within the OGD and give details at 1 overleaf					
	F. Outside Perimeter Fence Nearest building (dwelling house, church, etc.)	150	Quinton Hill Farm			
	G. Nearest road, railway, canal, river.	65	A 112			

Date **27-3-85** Signature **A/Bolt** Head of Establishment

Unrelaxed Explosive Limits (leave blank for CSO's use)

PROPOSED LIMITS APPROVED

Date **23-7-85** Chief Safety Officer **N Im Rees**

See overleaf for relaxations (where appropriate)

1. Details of Buildings shown at E overleaf. (A sketch of the area should be attached)

Building No.	Use	Distance in metres	T or U	Workers present M & N	Remarks	Leave this column for C.S.O.

2. Brief reference to any factors influencing the relaxation such as special procedures or written instructions that counter the additional potential hazard of the building:-

N 545,550, 554 are usee by one Section. Man limit M8N6 applies to the three buildings.

3. Is the fire cover in accordance with the recommended Establishment Fire Risk Classification? **Yes**

4. Relaxation approved

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

Relaxation Extended (See Note v).

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

EXPLANATORY NOTES -

- i. Both the maximum permitted Man Limit (M) and the number normally present (N) are required.
- ii. State quantity of explosive in each Hazard Division.
- iii. The perimeter fence marks the boundary of the Establishment. It is not necessarily the "Danger Building" Fence.
- iv. An occupied building is one that is normally occupied during working hours, as distinct from one occasionally visited.
- v. The detail of buildings and distances shown below should be checked to ensure no change has taken place before requesting an extension to the period covered by existing relaxation.

Establishment - **Royal Ordnance, Waltham Abbey** Building No. **N 554 with N 545**
& **N 550**
(If grouped with other rooms or buildings, give details)

Use	Protective State - Traversed (T) or Untraversed (U) - State type of Traverse, and construction of building, walls and roof	Hazard Divisions	Compatibility Groups	PROPOSED	
				Man Limit M&N (Note i)	Explosive Limit (Note ii) (Kgs)
Composite Propellant filling, charge cure & breakdown. Strand burning test.	Low T, earth. 9" brick, slate roof except west extension Sheet asbestos cladding.	1.3	C	M6N4	1000

If this is to replace an existing limit, please state date present limit approved. 17-3-81

Explanatory notes	Factor influencing Explosives limit 1	Distance in Metres 2	Number and use of building 3	T or U 4	Workers present M & N 5	For C.S.O. use 6
iii	A. Inside Perimeter Fence Nearest Explosives Storage Unit (a) traversed (b) untraversed	67	N 553 Curing of CDB charges.	T	M4N0	
iv	B. Main Office	180	P 754 Fire Station	U	M14N10	
iv	C. Main Engineering Workshop					
	D. Nearest Explosives Process Building (a) traversed and (b) untraversed	40	N 550 Composite Propellant Manufacture.			
iv)	E. Give numbers of all occupied non-explosive buildings within the OOD and give details at 1 overleaf					
	F. Outside Perimeter Fence Nearest building (dwelling house, church, etc.)	150	Quinton Hill Farm			
	G. Nearest road, railway, canal, river.	65	A 112			

Date **27-3-85** Signature **AJB** Head of Establishment

Unrelaxed Explosive Limits (leave blank for CSO's use)

Date Chief Safety Officer

See overleaf for relaxations (where appropriate)

1. Details of Buildings shown at E overleaf. (A sketch of the area should be attached)

Building No.	Use	Distance in metres	T or U	Workers present M & N	Remarks	Leave this column for C.S.O.

2. Brief reference to any factors influencing the relaxation such as special procedures or written instructions that counter the additional potential hazard of the building:-

N 545,550, 554 are usee by one Section. Man limit M8N6 applies to the three buildings.

3.

Is the fire cover in accordance with the recommended Establishment Fire Risk Classification?	Yes
--	-----

4. Relaxation approved

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

Relaxation Extended (See Note v).

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

EXPLANATORY NOTES -

- i. Both the maximum permitted Man Limit (M) and the number normally present (N) are required.
- ii. State quantity of explosive in each Hazard Division.
- iii. The perimeter fence marks the boundary of the Establishment. It is not necessarily the "Danger Building" Fence.
- iv. An occupied building is one that is normally occupied during working hours, as distinct from one occasionally visited.
- v. The detail of buildings and distances shown below should be checked to ensure no change has taken place before requesting an extension to the period covered by existing relaxation.

Establishment - Royal Ordnance, Waltham Abbey Building No. N 554 with N 545 & N 550
(If grouped with other rooms or buildings, give details)

Use	Protective State - Traversed (T) or Untraversed (U) - State type of Traverse, and construction of building, walls and roof	Hazard Divisions	Compatibility Groups	PROPOSED	
				Man Limit M&N (Note i)	Explosive Limit (Note ii) (Kgs)
Composite Propellant filling, charge cure & breakdown. Strand burning test.	Low T, earth. 9" brick, slate roof except west extension Sheet asbestos cladding.	1.3	C	M6N4	1000

If this is to replace an existing limit, please state date present limit approved. 17-3-81

Explanatory notes,	Factor influencing Explosives limit 1	Distance in Metres 2	Number and use of building 3	T or U 4	Workers present M & N 5	For C.S.O. use 6
iii	A. Nearest Explosives Storage Unit (a) traversed (b) untraversed	67	N 553 Curing of CDB charges.	T	M4N0	
iv	B. Main Office	180	P 754 Fire Station	U	M14N10	
iv	C. Main Engineering Workshop					
	D. Nearest Explosives Process Building (a) traversed and (b) untraversed	40	N 550 Composite Propellant Manufacture.			
iv)	E. Give numbers of all occupied non-explosive buildings within the OOD and give details at 1 overleaf					
	Outside Perimeter Fence F. Nearest building (dwelling house, church, etc.)	150	Quinton Hill Farm			
	G. Nearest road, railway, canal, river.	65	A 112			

Date 27-3-85 Signature AJB Head of Establishment

Unrelaxed Explosive Limits (leave blank for CSO's use)

Date Chief Safety Officer

See overleaf for relaxations (where appropriate)

1. Details of Buildings shown at E overleaf. (A sketch of the area should be attached)

Building No.	Use	Distance in metres	T or U	Workers present H & N	Remarks	Leave this column for C.S.O.

2. Brief reference to any factors influencing the relaxation such as special procedures or written instructions that counter the additional potential hazard of the building:-

N 545, 550, 554 are usee by one Section. Man limit M8N6 applies to the three buildings.

3.

Is the fire cover in accordance with the recommended Establishment Fire Risk Classification?	Yes
--	-----

4. Relaxation approved.

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

Relaxation Extended (See Note v).

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

EXPLANATORY NOTES -

- i. Both the maximum permitted Man Limit (M) and the number normally present (N) are required.
- ii. State quantity of explosive in each Hazard Division.
- iii. The perimeter fence marks the boundary of the Establishment. It is not necessarily the "Danger Building" Fence.
- iv. An occupied building is one that is normally occupied during working hours, as distinct from one occasionally visited.
- v. The detail of buildings and distances shown below should be checked to ensure no change has taken place before requesting an extension to the period covered by existing relaxation.

Establishment - Royal Ordnance, Waltham Abbey				Building No. N 554 with N 545 & N 550 (If grouped with other rooms or buildings, give details)	
Use	Protective State - Traversed (T) or Untraversed (U) - State type of Traverse, and construction of building, walls and roof	Hazard Divisions	Compatibility Groups	PROPOSED	
				Man Limit M&N (Note i)	Explosive Limit (Note ii) (Kgs)
Composite Propellant filling, charge cure & breakdown. Strand burning test.	Low T, earth. 9" brick, slate roof except west extension Sheet asbestos cladding.	1.3	C	M6N4	1000

If this is to replace an existing limit, please state date present limit approved. 17-3-81

Explanatory notes	Factor influencing Explosives limit 1	Distance in Metres 2	Number and use of building 3	T or U 4	Workers present M & N 5	For C.S.O. use 6
iii	A. Inside Perimeter Fence Nearest Explosives Storage Unit (a) traversed (b) untraversed	67	N 553 Curing of CDB charges.	T	M4N0	
iv	B. Main Office	180	P 754 Fire Station	U	M14N10	
iv	C. Main Engineering Workshop					
	D. Nearest Explosives Process Building (a) traversed and (b) untraversed	40	N 550 Composite Propellant Manufacture.			
iv)	E. Give numbers of all occupied non-explosive buildings within the OOD and give details at 1 overleaf					
	F. Outside Perimeter Fence Nearest building (dwelling house, church, etc.)	150	Quinton Hill Farm			
	G. Nearest road, railway, canal, river.	65	A 112			

Date 27-3-85 Signature A7Bols Head of Establishment PP

Unrelaxed Explosive Limits (leave blank for CSO's use)

Date Chief Safety Officer

See overleaf for relaxations (where appropriate)

1. Details of Buildings shown at E overleaf. (A sketch of the area should be attached)

Building No.	Use	Distance in metres	T or U	Workers present H & N	Remarks	Leave this column for C.S.O.

2. Brief reference to any factors influencing the relaxation such as special procedures or written instructions that counter the additional potential hazard of the building:-

N 545, 550, 554 are usee by one Section. Man limit MBN6 applies to the three buildings.

3.

Is the fire cover in accordance with the recommended Establishment Fire Risk Classification?	Yes
--	-----

4. Relaxation approved

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

Relaxation Extended (See Note v).

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

EXPLANATORY NOTES -

- i. Both the maximum permitted Man Limit (M) and the number normally present (N) are required.
- ii. State quantity of explosive in each Hazard Division.
- iii. The perimeter fence marks the boundary of the Establishment. It is not necessarily the "Danger Building" Fence.
- iv. An occupied building is one that is normally occupied during working hours, as distinct from one occasionally visited.
- v. The detail of buildings and distances shown below should be checked to ensure no change has taken place before requesting an extension to the period covered by existing relaxation.

Establishment - Royal Ordnance, Waltham Abbey Building No. N 554 with N 545 & N 550
(If grouped with other rooms or buildings, give details)

Use	Protective State - Traversed (T) or Untraversed (U) - State type of Traverse, and construction of building, walls and roof	Hazard Divisions	Compatibility Groups	PROPOSED	
				Man Limit M&N (Note i)	Explosive Limit (Note ii) (Kgs)
Composite Propellant filling, charge cure & breakdown. Strand burning test.	Low T, earth. 9" brick, slate roof except west extension Sheet asbestos cladding.	1.3	C	M6N4	1000

If this is to replace an existing limit, please state date present limit approved. 17-3-81

Explanatory notes,	Factor influencing Explosives limit 1	Distance in Metres 2	Number and use of building 3	T or U 4	Workers present M & N 5	For C.S.O. use 6
iii	A. Inside Perimeter Fence Nearest Explosives Storage Unit (a) traversed (b) untraversed	67	N 553 Curing of CDB charges.	T	M4N0	
iv	B. Main Office	180	P 754 Fire Station	U	M14N10	
iv	C. Main Engineering Workshop					
	D. Nearest Explosives Process Building (a) traversed and (b) untraversed	40	N 550 Composite Propellant Manufacture.			
iv)	E. Give numbers of all occupied non-explosive buildings within the OOD and give details at 1 overleaf					
	F. Outside Perimeter Fence Nearest building (dwelling house, church, etc.)	150	Quinton Hill Farm			
	G. Nearest road, railway, canal, river.	65	A 112			

Date 27-3-85 Signature AJB Head of Establishment

Unrelaxed Explosive Limits (leave blank for CSO's use)

Date Chief Safety Officer

See overleaf for relaxations (where appropriate)

1. Details of Buildings shown at E overleaf. (A sketch of the area should be attached)

Building No.	Use	Distance in metres	T or U	Workers present M & N	Remarks	Leave this column for C.S.O.

2. Brief reference to any factors influencing the relaxation such as special procedures or written instructions that counter the additional potential hazard of the building:-

N 545, 550, 554 are usee by one Section. Man limit MBN6 applies to the three buildings.

3.

Is the fire cover in accordance with the recommended Establishment Fire Risk Classification?	Yes
--	-----

4. Relaxation approved

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

Relaxation Extended (See Note v).

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

EXPLANATORY NOTES -

- i. Both the maximum permitted Man Limit (M) and the number normally present (N) are required.
- ii. State quantity of explosive in each Hazard Division.
- iii. The perimeter fence marks the boundary of the Establishment. It is not necessarily the "Danger Building" Fence.
- iv. An occupied building is one that is normally occupied during working hours, as distinct from one occasionally visited.
- v. The detail of buildings and distances shown below should be checked to ensure no change has taken place before requesting an extension to the period covered by existing relaxation.

Establishment -		ROF Waltham Abbey		Building No. N556 + N558 ^{ATB 5/7/84} (If grouped with other rooms or buildings, give details)	
Use	Protective State - Traversed (T) or Untraversed (U) - State type of Traverse, and construction of building, walls and roof	Hazard Divisions	Compatibility Groups	PROPOSED	
				Man Limit M&N (Note i)	Explosive Limit (Note ii) (Kgs)
Experimental process- ing of colloidal propellants	T, Earth, does not reach eaves. Asbestos clad.	1.1	C & D	M4 N2	50

If this is to replace an existing limit, please state date present limit approved. 12.12.79

Explanatory notes ,	Factor influencing Explosives limit 1	Distance in Metres 2	Number and use of building 3	T or U 4	Workers present M & N 5	For C.S.O. use 6
	A. Nearest Explosives Storage Unit	170	N532 Magazine	T	M3	
	(a) traversed	138	N573 Magazine	U	-	
	(b) untraversed					
iv	B. Main Office	90	N562 P1 Offices	U	20	
iv	C. Main Engineering Workshop	415	G408 BWD Workshop	U	16	
	D. Nearest Explosives Process Building	45	N557 NG extraction	T	4	
	(a) traversed and	35	N569 Charge examination	U	3	
	(b) untraversed					
iv)	E. Give numbers of all occupied non-explosive buildings within the OOD and give details at 1 overleaf					
	Outside Perimeter Fence					
	F. Nearest building (dwelling house, church, etc.)	280	Quinton Hill Farm			
	G. Nearest road, railway, canal, river.	225	A112 Sewardstone Rd			

Date 16-4-84 Signature..... ATB MP Head of Establishment

Unrelaxed Explosive Limits (leave blank for CSO's use)

PROPOSED LIMITS APPROVED

Date 18-1-85 Chief Safety Officer N. J. Reeves

See overleaf for relaxations (where appropriate)

1. Details of Buildings shown at E overleaf. (A sketch of the area should be attached)

Building No.	Use	Distance in metres	T or U	Workers present M & N	Remarks	Leave this column for C.S.O.

2. Brief reference to any factors influencing the relaxation such as special procedures or written instructions that counter the additional potential hazard of the building:-

Building to be used for experimental processes concerned with manufacture of colloidal propellants. 1.1 materials (dry NC, picrite, RDX) will only be present for a relatively short time before becoming 1.3 risk. Working instructions will preclude stocks of 1.1 being retained in building.

3.

Is the fire cover in accordance with the recommended Establishment Fire Risk Classification?	YES
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4. Relaxation approved

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

Relaxation Extended (See Note v).

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

EXPLANATORY NOTES -

- i. Both the maximum permitted Man Limit (M) and the number normally present (N) are required.
- ii. State quantity of explosive in each Hazard Division.
- iii. The perimeter fence marks the boundary of the Establishment. It is not necessarily the "Danger Building" Fence.
- iv. An occupied building is one that is normally occupied during working hours, as distinct from one occasionally visited.
- v. The detail of buildings and distances shown below should be checked to ensure no change has taken place before requesting an extension to the period covered by existing relaxation.

Establishment - ROF Waltham Abbey				Building No. N 557 (If grouped with other rooms or buildings, give details)	
Use	Protective State - Traversed (T) or Untraversed (U) - State type of Traverse, and construction of building, walls and roof	Hazard Divisions	Compatibility Groups	PROPOSED	
				Man Limit M&N (Note i)	Explosive Limit (Note ii) (Kgs)
N/G extraction and nitration plant	T, earth Asbestos cladding on wood frame	1.1.	D	M4N3	150

If this is to replace an existing limit, please state date present limit approved. 25-7-68

Explanatory notes,	Factor influencing Explosives limit 1	Distance in Metres 2	Number and use of building 3	T or U 4	Workers present	For C.S.O. use 6
					M & N 5	
iii	A. Nearest Explosives Storage Unit (a) traversed (b) untraversed	200	N 547 Finished Charge store N 545 Composite propellant in process store	T	M5N0	
		45		U	M4N0	
iv	B. Main Office	127	N 562 Branch offices			
iv	C. Main Engineering Workshop	375	G 408 Services Workshop	U	N20	
	D. Nearest Explosives Process Building (a) traversed and (b) untraversed	45	N 556 Experimental Processing	T	M4N2	
iv)	E. Give numbers of all occupied non-explosive buildings within the OQD and give details at 1 overleaf		N 509			
	Outside Perimeter Fence F. Nearest building (dwelling house, church, etc.)	262	Quinton Hill Farm			
	G. Nearest road, railway, canal, river.	220 312	A 112 M 25			

Date 26-4-84 Signature AJ Beck Head of Establishment pp

Unrelaxed Explosive Limits (leave blank for CSO's use)

PROPOSED LIMITS APPROVED

Date 18-1-85 Chief Safety Officer N Jm Rees

See overleaf for relaxations (where appropriate)

1. Details of Buildings shown at E overleaf. (A sketch of the area should be attached)

Building No.	Use	Distance in metres	T or U	Workers present M & N	Remarks	Leave this column for C.S.O.
N 509	Staff Canteen	200	U			

2. Brief reference to any factors influencing the relaxation such as special procedures or written instructions that counter the additional potential hazard of the building:-

Nitration facility rarely used and not used at same time as N/G extraction.
N/G extraction will largely be replaced by new smaller facility in N 549 , but will retained as a reserve.

3.

Is the fire cover in accordance with the recommended Establishment Fire Risk Classification?	Yes
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4. Relaxation approved

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

Relaxation Extended (See Note v).

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

EXPLANATORY NOTES -

- i. Both the maximum permitted Man Limit (M) and the number normally present (N) are required.
- ii. State quantity of explosive in each Hazard Division.
- iii. The perimeter fence marks the boundary of the Establishment. It is not necessarily the "Danger Building" Fence.
- iv. An occupied building is one that is normally occupied during working hours, as distinct from one occasionally visited.
- v. The detail of buildings and distances shown below should be checked to ensure no change has taken place before requesting an extension to the period covered by existing relaxation.

Establishment -		PERME, WALTHAM ABBEY ESSEX EN9 1BP		Building No. N562 (If grouped with other rooms or buildings, give details)	
Use	Protective State - Traversed (T) or Untraversed (U) - State type of Traverse, and construction of building, walls and roof	Hazard Divisions	Compatibility Groups	PROPOSED	
				Man Limit M&N (Note i)	Explosive Limit (Note ii) (Kgs)
Propellant Labora- tories & Offices	U 9" Brick Board & felt roof	1.3	C	M33 N27	1.6 (see 2 over)

If this is to replace an existing limit, please state date present limit approved. 25-7-68

Explan- atory notes ,	Factor influencing Explosives limit 1	Distance in Metres 2	Number and use of building 3	T or U 4	Workers	For C.S.O. use 6
					present M & N 5	
iii	Inside Perimeter Fence A. Nearest Explosives Storage Unit (a) traversed (b) untraversed	55 62	N553 CBB Charge Curing P769 Propellant Locker	T U	M4 NO M2 NO	
iv	B. Main Office	115	P754 Fire Station	U	M14N10	
iv	C. Main Engineering Workshop	400				
	D. Nearest Explosives Process Building (a) traversed and (b) untraversed	25	N567 Propellant lab & Exper- imental Process	U	M4 N2	
iv)	E. Give numbers of all occupied non-explosive buildings within the OQD and give details at 1 overleaf					
	Outside Perimeter Fence F. Nearest building (dwelling house, church, etc.)	235	Quinton Hill Farm			
	G. Nearest road, railway, canal, river.	105	A112			

Date 16 February 1981 Signature B.H. Newman Head of Establishment

Unrelaxed Explosive Limits (leave blank for CSO's use)

HD 1.3C - 1.6Keg distributed as at 2. overleaf

Date 17-3-81 Chief Safety Officer N. Imrees

See overleaf for relaxations (where appropriate)

1. Details of Buildings shown at E overleaf. (A sketch of the area should be attached)

Building No.	Use	Distance in metres	T or U	Workers present M & N	Remarks	Leave this column for C.S.O.

2. Brief reference to any factors influencing the relaxation such as special procedures or written instructions that counter the additional potential hazard of the building:-

<p>a) Laboratory 500g M3N2</p> <p>b) Balance room 100g M3N2</p> <p>c) Room 8 - sample receipt 1kg M4N3</p>
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3. Is the fire cover in accordance with the recommended Establishment Fire Risk Classification?	Yes
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4. Relaxation approved

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

Relaxation Extended (See Note v).

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

EXPLANATORY NOTES -

- i. Both the maximum permitted Man Limit (M) and the number normally present (N) are required.
- ii. State quantity of explosive in each Hazard Division.
- iii. The perimeter fence marks the boundary of the Establishment. It is not necessarily the "Danger Building" Fence.
- iv. An occupied building is one that is normally occupied during working hours, as distinct from one occasionally visited.
- v. The detail of buildings and distances shown below should be checked to ensure no change has taken place before requesting an extension to the period covered by existing relaxation.

Establishment - ROF Waltham Abbey		Building No. N567 (If grouped with other rooms or buildings, give details)			
Use	Protective State - Traversed (T) or Untraversed (U) - State type of Traverse, and construction of building, walls and roof	Hazard Divisions	Compatibility Groups	PROPOSED	
				Man Limit M&N (Note i)	Explosive Limit (Note ii) (Kgs)
Experimental process- ing of colloidal propellant	U, Brick Board and slate roof	$\frac{1.1}{1.3}$	$\frac{C \ \& \ D}{C}$	M4 N2	$\frac{\text{Bay } 1}{\text{Bay } 3} \frac{5\text{kg}}{2\text{kg}}$

If this is to replace an existing limit, please state date present limit approved. 20-12-79

Explanatory notes, 1	Factor influencing Explosives limit 1	Distance in Metres 2	Number and use of building 3	T or U 4	Workers present M & N 5	For C.S.O. use 6
iii	Inside Perimeter Fence A. Nearest Explosives Storage Unit (a) traversed (b) untraversed	78 87 150	N 553 CURING OF CDB CHARGES AND STORAGE TRIALS PDS P703 Cordite store N573 Magazine	T U	M4 N3 N 0	
iv	B. Main Office	25 27	N563 Office and lab	U	10	
iv	C. Main Engineering Workshop	510	G408 BWD Workshop	U	-	
	D. Nearest Explosives Process Building (a) traversed and (b) untraversed	25 32	N572 Experimental processing N569 Charge examination	T U	M6 N4 M3	
iv)	E. Give numbers of all occupied non-explosive buildings within the OQD and give details at 1 overleaf		N563			
	Outside Perimeter Fence F. Nearest building (dwelling house, church, etc.)	275	Quinton Hill Farm			
	G. Nearest road, railway, canal, river.	156	A112			

Date 16-4-84 Signature A/B Head of Establishment

Unrelaxed Explosive Limits (leave blank for CSO's use)

PROPOSED LIMITS APPROVED

Date 23-7-85 Chief Safety Officer N J. Rees

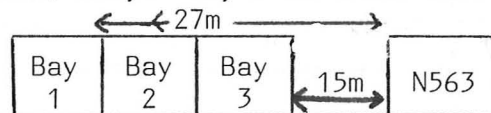
See overleaf for relaxations (where appropriate)

1. Details of Buildings shown at E overleaf. (A sketch of the area should be attached)

Building No.	Use	Distance in metres	T or U	Workers present M & N	Remarks	Leave this column for C.S.O.
N563	P1 Office	27	U	12	Mainly Senior Sci Staff	

2. Brief reference to any factors influencing the relaxation such as special procedures or written instructions that counter the additional potential hazard of the building:-

Bays 1 and 2 are separated by 12 inch brick wall, Bays 2 and 3 separated by 9 inch brick wall. East wall of Bay 3 is 9 inch brick. Bay 3 is to be used as control lab and will contain samples (max 100g each) only. Bay 2 is inert storage.



3.

Is the fire cover in accordance with the recommended Establishment Fire Risk Classification?	YES
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4. Relaxation approved

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

Relaxation Extended (See Note v).

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

EXPLANATORY NOTES -

- i. Both the maximum permitted Man Limit (M) and the number normally present (N) are required.
- ii. State quantity of explosive in each Hazard Division.
- iii. The perimeter fence marks the boundary of the Establishment. It is not necessarily the "Danger Building" Fence.
- iv. An occupied building is one that is normally occupied during working hours, as distinct from one occasionally visited.
- v. The detail of buildings and distances shown below should be checked to ensure no change has taken place before requesting an extension to the period covered by existing relaxation.

Establishment -		PERME, WALTHAM ABBEY ESSEX EN9 1BP		Building No. N569 (If grouped with other rooms or buildings, give details)	
Use	Protective State - Traversed (T) or Untraversed (U) - State type of Traverse, and construction of building, walls and roof	Hazard Divisions	Compatibility Groups	PROPOSED	
				Man Limit M&N (Note i)	Explosive Limit (Note ii) (Kgs)
CDB Charge breakdown and X-ray examina- tion.	U 9" Brick, slate roof	1.3	C	M8 N5	850

If this is to replace an existing limit, please state date present limit approved. 25-7-68

Explanatory notes,	Factor influencing Explosives limit 1	Distance in Metres 2	Number and use of building 3	T or U 4	Workers present M & N 5	For C.S.O. use 6
iii	Inside Perimeter Fence A. Nearest Explosives Storage Unit (a) traversed (b) untraversed	12 52	N570 Heat Test of propellants N553 CDB Curing	U T	M2N0 M3N0	
iv	B. Main Office	55	N562 P1 Offices and Labs	U	M33N27	
iv	C. Main Engineering Workshop	195	P754 Fire Station	U	M14N10	
	D. Nearest Explosives Process Building (a) traversed and (b) untraversed	32 32	N556 Experimental Propellant Processing N567 ditto	T U	M4N2 M4N2	
iv)	E. Give numbers of all occupied non-explosive buildings within the OGD and give details at 1 overleaf	-				
	Outside Perimeter Fence F. Nearest building (dwelling house, church, etc.)	280	Quinton Hill Farm			
	G. Nearest road, railway, canal, river.	200	A112			

Date 16 February 1981 Signature B.H. Newman Head of Establishment

Unrelaxed Explosive Limits (leave blank for CSO's use)

HD 1.3C - 850Keg Total Only 50Keg can be breakdown compartment.

Date 23-3-81 Chief Safety Officer N.J. Rees

See overleaf for relaxations (where appropriate)

1. Details of Buildings shown at E overleaf. (A sketch of the area should be attached)

Building No.	Use	Distance in metres	T or U	Workers present M & N	Remarks	Leave this column for C.S.O.

2. Brief reference to any factors influencing the relaxation such as special procedures or written instructions that counter the additional potential hazard of the building:-

CDB Charge breakdown at eastern end, seperated from X-ray by 9" wall, to eave height limit 50kg. X-ray facility normally occupied during working day (3 personnel)

3. Is the fire cover in accordance with the recommended Establishment Fire Risk Classification? *Yes.*

4. Relaxation approved

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

Relaxation Extended (See Note v).

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

EXPLANATORY NOTES -

- i. Both the maximum permitted Man Limit (M) and the number normally present (N) are required.
- ii. State quantity of explosive in each Hazard Division.
- iii. The perimeter fence marks the boundary of the Establishment. It is not necessarily the "Danger Building" Fence.
- iv. An occupied building is one that is normally occupied during working hours, as distinct from one occasionally visited.
- v. The detail of buildings and distances shown below should be checked to ensure no change has taken place before requesting an extension to the period covered by existing relaxation.

Establishment -		PERME, WALTHAM ABBEY ESSEX EN9 1BP		Building No. N570 (If grouped with other rooms or buildings, give details)	
Use	Protective State - Traversed (T) or Untraversed (U) - State type of Traverse, and construction of building, walls and roof	Hazard Divisions	Compatibility Groups	PROPOSED	
				Man Limit M&N (Note i)	Explosive Limit (Note ii) (Kgs)
Oven building for heat testing of propellant	U, 9" Brick, roof and wall furthest from N569 asbestos sheet.	1,3	C	M2 NO	40

If this is to replace an existing limit, please state date present limit approved. 25.7.68

Explanatory notes ,	Factor influencing Explosives limit 1	Distance in Metres 2	Number and use of building 3	T or U 4	Workers present M & N 5	For C.S.O. use 6
iii	A. Inside Perimeter Fence Nearest Explosives Storage Unit (a) traversed (b) untraversed	55	N553 CDB Curing	T	M3 NO	
iv	B. Main Office	67	N562 P1 Offices & Labs	U	M33N27	
iv	C. Main Engineering Workshop	192	P754 Fire Station	U	M14N10	
	D. Nearest Explosives Process Building (a) traversed and (b) untraversed	12	N569 CDB Charge Breakdown & X-ray examination	U	M8 N3	
iv)	E. Give numbers of all occupied non-explosive buildings within the OGD and give details at 1 overleaf	-				
	F. Outside Perimeter Fence Nearest building (dwelling house, church, etc.)	307	Quinton Hill Farm			
	G. Nearest road, railway, canal, river.	212	A112			

Date 16 February 1981 Signature B.H. Newman Head of Establishment

Unrelaxed Explosive Limits (leave blank for CSO's use)

HJ 1-3c - 40 Kgs Total

Date 17-3-81 Chief Safety Officer N Jm Rees

See overleaf for relaxations (where appropriate)

1. Details of Buildings shown at E overleaf. (A sketch of the area should be attached)

Building No.	Use	Distance in metres	T or U	Workers present M & N	Remarks	Leave this column for C.S.O.

2. Brief reference to any factors influencing the relaxation such as special procedures or written instructions that counter the additional potential hazard of the building:-

<p>Individual Oven Limits 13kg per oven 25 Tube Oven 0.5kg each</p>
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3.

<p>Is the fire cover in accordance with the recommended Establishment Fire Risk Classification?</p>	<p>Yes.</p>
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4. Relaxation approved

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

Relaxation Extended (See Note v).

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

EXPLANATORY NOTES -

- i. Both the maximum permitted Man Limit (M) and the number normally present (N) are required.
- ii. State quantity of explosive in each Hazard Division.
- iii. The perimeter fence marks the boundary of the Establishment. It is not necessarily the "Danger Building" Fence.
- iv. An occupied building is one that is normally occupied during working hours, as distinct from one occasionally visited.
- v. The detail of buildings and distances shown below should be checked to ensure no change has taken place before requesting an extension to the period covered by existing relaxation.

Establishment - ROF, Waltham Abbey		Building No. N572 (If grouped with other rooms or buildings, give details)			
Use	Protective State - Traversed (T) or Untraversed (U) - State type of Traverse, and construction of building, walls and roof	Hazard Divisions	Compatibility Groups	PROPOSED	
				Man Limit M&N (Note i)	Explosive Limit (Note ii) (Kgs)
Experimental process- ing of colloidal propellants	T Brick, board and felt roof	1.1	C	M6 N4	Bay 1 5kg
		1.3	C		Bay 3 50kg
		1.1	C & D		Bay 4 50kg

If this is to replace an existing limit, please state date present limit approved. 20-12-79

Explan- atory notes ,	Factor influencing Explosives limit 1	Distance in Metres 2	Number and use of building 3	T or U 4	Workers	For C.S.O. use 6
					present M & N 5	
iii	A. Nearest Explosives Storage Unit (a) traversed (b) untraversed	90	P703 Cordite stove	T	M4 N3	
		97	N573 Magazine N562 PDS	U	NO	
iv	B. Main Office	50	N563 Office and Lab	U	10	
iv	C. Main Engineering Workshop	500	G408 BWD Workshop	U		
	D. Nearest Explosives Process Building (a) traversed and (b) untraversed	25	N567 Experimental processing of colloidal propellant	U	M4 N2	
iv)	E. Give numbers of all occupied non-explosive buildings within the OQD and give details at 1 overleaf	33	- (N568 is inert store)			
	Outside Perimeter Fence F. Nearest building (dwelling house, church, etc.)	325	Quinton Hill Farm			
	G. Nearest road, railway, canal, river.	200	A112			

Date 16-4-84 Signature..... *ATBelt* p.p. Head of Establishment

Unrelaxed Explosive Limits (leave blank for CSO's use)

PROPOSED LIMITS APPROVED

Date 18-1-85 Chief Safety Officer *NJmRees*

See overleaf for relaxations (where appropriate)

1. Details of Buildings shown at E overleaf. (A sketch of the area should be attached)

Building No.	Use	Distance in metres	T or U	Workers present M & N	Remarks	Leave this column for C.S.O.

2. Brief reference to any factors influencing the relaxation such as special procedures or written instructions that counter the additional potential hazard of the building:-

Bays separated by 12 inch brick walls. Bay 1 to be used as Control Lab, samples only, mainly 1.3. Bay 2 Control room for Bay 4, no explosives. Bay 3b storage of a.3. (Bay 3a next to Bay 2 used as inert store, 3a & 3b separated by 4½ inch brick wall). Bay 4 experimental processing of propellant, some incoming material 1.1.D, most products 1.3, but some 1.1.C, which will not be taken into Bay 3b.

3.

Is the fire cover in accordance with the recommended Establishment Fire Risk Classification?

YES

4. Relaxation approved

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

Relaxation Extended (See Note v).

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

EXPLANATORY NOTES -

- i. Both the maximum permitted Man Limit (M) and the number normally present (N) are required.
- ii. State quantity of explosive in each Hazard Division.
- iii. The perimeter fence marks the boundary of the Establishment. It is not necessarily the "Danger Building" Fence.
- iv. An occupied building is one that is normally occupied during working hours, as distinct from one occasionally visited.
- v. The detail of buildings and distances shown below should be checked to ensure no change has taken place before requesting an extension to the period covered by existing relaxation.

Establishment -		PERME. WALTHAM ABBEY ESSEX EN9 1BP		Building No. N573 (If grouped with other rooms or buildings, give details)	
Use	Protective State - Traversed (T) or Untraversed (U) - State type of Traverse, and construction of building, walls and roof	Hazard Divisions	Compatibility Groups	PROPOSED	
				Man Limit M&N (Note i)	Explosive Limit (Note ii) (Kgs)
Storage of non - standard propellant	Air raid shelter, 6" concrete covered with 18" earth.	1.3	C	M2 NO	100

If this is to replace an existing limit, please state date present limit approved. 6.3.70

Explanatory notes ,	Factor influencing Explosives limit 1	Distance in Metres 2	Number and use of building 3	T or U 4	Workers present M & N 5	For C.S.O. use 6
iii	Inside Perimeter Fence A. Nearest Explosives Storage Unit (a) traversed (b) untraversed	70 115	N579 Casting Liquid Storage N570 Heat Test of Propellant	T U	M3NO M2NO	
iv	B. Main Office	187	N562 P1 Offices & Labs	U	M33N27	
iv	C. Main Engineering Workshop	287	P754 Fire Station	U	M14N10	
	D. Nearest Explosives Process Building (a) traversed and (b) untraversed	20	P708 Non-explosive ingredient store and weighing Also propellant exhibition	U	M10N4	
iv)	E. Give numbers of all occupied non-explosive buildings within the OGD and give details at 1 overleaf	-				
	Outside Perimeter Fence F. Nearest building (dwelling house, church, etc.)	>400				
	G. Nearest road, railway, canal, river.	330	A112			

Date 16 February 1981 Signature B.H. Newman Head of Establishment

Unrelaxed Explosive Limits (leave blank for CSO's use)

HD1-3C - 100 Kgs

Date 23-3-81 Chief Safety Officer N. Imbus

See overleaf for relaxations (where appropriate)

1. Details of Buildings shown at E overleaf. (A sketch of the area should be attached)

Building No.	Use	Distance in metres	T or U	Workers present M & N	Remarks	Leave this column for C.S.O.

2. Brief reference to any factors influencing the relaxation such as special procedures or written instructions that counter the additional potential hazard of the building:-

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3.

Is the fire cover in accordance with the recommended Establishment Fire Risk Classification?	Yes
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4. Relaxation approved

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

Relaxation Extended (See Note v).

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

EXPLANATORY NOTES -

- i. Both the maximum permitted Man Limit (M) and the number normally present (N) are required.
- ii. State quantity of explosive in each Hazard Division.
- iii. The perimeter fence marks the boundary of the Establishment. It is not necessarily the "Danger Building" Fence.
- iv. An occupied building is one that is normally occupied during working hours, as distinct from one occasionally visited.
- v. The detail of buildings and distances shown below should be checked to ensure no change has taken place before requesting an extension to the period covered by existing relaxation.

Establishment -		PERME, WALTHAM ABBEY ESSEX EN9 1BP		Building No. N574 (If grouped with other rooms or buildings, give details)	
Use	Protective State - Traversed (T) or Untraversed (U) - State type of Traverse, and construction of building, walls and roof	Hazard Divisions	Compatibility Groups	PROPOSED	
				Man Limit M&N (Note i)	Explosive Limit (Note ii) (Kgs)
N.G Wash water settling House	U 4½" Brick Asbestos sheet roof	1,1	D	M3 NO	10

If this is to replace an existing limit, please state date present limit approved. 25.7.68

Explanatory notes ,	Factor influencing Explosives limit 1	Distance in Metres 2	Number and use of building 3	T or U 4	Workers present M & N 5	For C.S.O. use 6
iii	Inside Perimeter Fence A. Nearest Explosives Storage Unit (a) traversed (b) untraversed	20 60	N549 Storage in Tundish Room N570 Heat Test of Propellants	T U	M10N8 M2 NO	
iv	B. Main Office	135	N562 P1 Offices & Labs	U	M33N27	
iv	C. Main Engineering Workshop	265	P754 Fire Station	U	M14N10	
	D. Nearest Explosives Process Building (a) traversed and (b) untraversed	15	N549 Wet Mix	T	M10N8	
iv)	E. Give numbers of all occupied non-explosive buildings within the OQD and give details at 1 overleaf	-				
	Outside Perimeter Fence F. Nearest building (dwelling house, church, etc.)	350	Quinton Hill Farm			
	G. Nearest road, railway, canal, river.	280	A112			

Date 16 February 1971 Signature B.H. Newman Head of Establishment

Unrelaxed Explosive Limits (leave blank for CSO's use)

H9 1-19 - 10 Kgs

Date 17-3-81 Chief Safety Officer N.J.M. Ryan

See overleaf for relaxations (where appropriate)

1. Details of Buildings shown at E overleaf. (A sketch of the area should be attached)

Building No.	Use	Distance in metres	T or U	Workers present M & N	Remarks	Leave this column for C.S.O.

2. Brief reference to any factors influencing the relaxation such as special procedures or written instructions that counter the additional potential hazard of the building:-

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3.

Is the fire cover in accordance with the recommended Establishment Fire Risk Classification?	Yes
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4. Relaxation approved

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

Relaxation Extended (See Note v).

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

EXPLANATORY NOTES -

- i. Both the maximum permitted Man Limit (M) and the number normally present (N) are required.
- ii. State quantity of explosive in each Hazard Division.
- iii. The perimeter fence marks the boundary of the Establishment. It is not necessarily the "Danger Building" Fence.
- iv. An occupied building is one that is normally occupied during working hours, as distinct from one occasionally visited.
- v. The detail of buildings and distances shown below should be checked to ensure no change has taken place before requesting an extension to the period covered by existing relaxation.

Establishment -			PERME, WALTHAM ABBEY ESSEX ENGLAND		Building No. N579 (If grouped with other rooms or buildings, give details)	
Use	Protective State - Traversed (T) or Untraversed (U) - State type of Traverse, and construction of building, walls and roof	Hazard Divisions	Compatibility Groups	PROPOSED		
				Man Limit M&N (Note i)	Explosive Limit (Note ii) (Kgs)	
Storage of Casting Liquid	T Earth 9" Brick Board & Felt Roof	1.1	D	M3 NO	500	

If this is to replace an existing limit, please state date present limit approved. 25.7.68

Explanatory notes, 1	Factor influencing Explosives limit 1	Distance in Metres 2	Number and use of building 3	T or U 4	Workers present M & N 5	For C.S.O. use 6
iii	Inside Perimeter Fence A. Nearest Explosives Storage Unit (a) traversed (b) untraversed	20 57	N581 Storage of Waste Propellant P710 In Process Store for Propellant	U T	M2NO M3NO	
iv	B. Main Office	265	N562 P1 Offices & Labs	U	M33N27	
iv	C. Main Engineering Workshop	290	P754 Fire Station	U	M14N10	
	D. Nearest Explosives Process Building (a) traversed and (b) untraversed	67	P708 Non-explosive store & weighing Also propellant exhibition	U	M10N4	
iv)	E. Give numbers of all occupied non-explosive buildings within the OOD and give details at 1 overleaf	95	-			
	Outside Perimeter Fence F. Nearest building (dwelling house, church, etc.)	>400	-			
	G. Nearest road, railway, canal, river.	>400	-			

Date 16 February 1981 Signature B.H. Newman Head of Establishment

Unrelaxed Explosive Limits (leave blank for CSO's use)

HQ 1-10 - 500 Kgs

Date 17-3-81 Chief Safety Officer N. Timmins

See overleaf for relaxations (where appropriate)

1. Details of Buildings shown at E overleaf. (A sketch of the area should be attached)

Building No.	Use	Distance in metres	T or U	Workers present M & N	Remarks	Leave this column for C.S.O.

2. Brief reference to any factors influencing the relaxation such as special procedures or written instructions that counter the additional potential hazard of the building:-

--

3.

Is the fire cover in accordance with the recommended Establishment Fire Risk Classification?	Yes
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4. Relaxation approved

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

Relaxation Extended (See Note v).

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

EXPLANATORY NOTES -

- i. Both the maximum permitted Man Limit (M) and the number normally present (N) are required.
- ii. State quantity of explosive in each Hazard Division.
- iii. The perimeter fence marks the boundary of the Establishment. It is not necessarily the "Danger Building" Fence.
- iv. An occupied building is one that is normally occupied during working hours, as distinct from one occasionally visited.
- v. The detail of buildings and distances shown below should be checked to ensure no change has taken place before requesting an extension to the period covered by existing relaxation.

Establishment -		PERME Waltham Abbey Essex		Building No. N581 (If grouped with other rooms or buildings, give details)	
Use	Protective State - Traversed (T) or Untraversed (U) - State type of Traverse, and construction of building, walls and roof	Hazard Divisions	Compatibility Groups	PROPOSED	
				Man Limit M&N (Note i)	Explosive Limit (Note ii) (Kgs)
Storage of Waste: Propellant	U 15" Brick walls 8" RC Roof no windows, light door	1.3	C	M2	100kg

If this is to replace an existing limit, please state date present limit approved. 25 - 7 - 68

Explanatory notes,	Factor influencing Explosives limit 1	Distance in Metres 2	Number and use of building 3	T or U 4	Workers present	For C.S.O. use 6
					M & N 5	
iii	Inside Perimeter Fence A. Nearest Explosives Storage Unit (a) traversed (b) untraversed	20 10	N579 Storage of Casting liquid N586 Storage of Waste propellant U	T U	M3 M2	
iv	B. Main Office	205	Proposed SE Offices	U	10	
iv	C. Main Engineering Workshop	350	G408 BWD Workshops	U	20	
	D. Nearest Explosives Process Building (a) traversed and (b) untraversed	62 105	R601 Dry NC weighing P708 Propellant exhibition of non-explosive ingredient weighing	T U	M3 N2 M10 N4	
iv)	E. Give numbers of all occupied non-explosive buildings within the OOD and give details at 1 overleaf	60	-			
	Outside Perimeter Fence F. Nearest building (dwelling house, church, etc.)	505	Quinton Hill Farm			
	G. Nearest road, railway, canal, river.	435	A112			

Date 11/7/80 Signature *[Signature]* Head of Establishment

Unrelaxed Explosive Limits (leave blank for CSO's use)

HD 1.3c - 100kg

Date 28-8-80 Chief Safety Officer *[Signature]*

See overleaf for relaxations (where appropriate)

1. Details of Buildings shown at E overleaf. (A sketch of the area should be attached)

Building No.	Use	Distance in metres	T or U	Workers present M & N	Remarks	Leave this column for C.S.O.

2. Brief reference to any factors influencing the relaxation such as special procedures or written instructions that counter the additional potential hazard of the building:-

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3.

Is the fire cover in accordance with the recommended Establishment Fire Risk Classification?	Yes
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4. Relaxation approved

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

Relaxation Extended (See Note v).

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

EXPLANATORY NOTES -

- i. Both the maximum permitted Man Limit (M) and the number normally present (N) are required.
- ii. State quantity of explosive in each Hazard Division.
- iii. The perimeter fence marks the boundary of the Establishment. It is not necessarily the "Danger Building" Fence.
- iv. An occupied building is one that is normally occupied during working hours, as distinct from one occasionally visited.
- v. The detail of buildings and distances shown below should be checked to ensure no change has taken place before requesting an extension to the period covered by existing relaxation.

Establishment - PERME Waltham Abbey Essex		Building No. N586 (If grouped with other rooms or buildings, give details)			
Use	Protective State - Traversed (T) or Untraversed (U) - State type of Traverse, and construction of building, walls and roof	Hazard Divisions	Compatibility Groups	PROPOSED	
				Man Limit M&N (Note i)	Explosive Limit (Note ii) (Kgs)
Storage of Waste Propellant Ex - Pill Box	U 15" Brick walls 6"RC roof window slits boarded, light door	1.3	C	M2	100kg

If this is to replace an existing limit, please state date present limit approved. **10-10-74**

Explanatory notes ,	Factor influencing Explosives limit 1	Distance in Metres 2	Number and use of building 3	T or U 4	Workers present	For C.S.O. use 6
					M & N 5	
iii	A. Nearest Explosives Storage Unit (a) traversed (b) untraversed	25	N579 Storage of Casting liquid	T	M3	
		10	N581 Storage of Waste Propellant	U	M2	
iv	B. Main Office	195	Proposed SE Offices	U	10	
iv	C. Main Engineering Workshop	340	G408 BWD Workshops	U	20	
	D. Nearest Explosives Process Building (a) traversed and (b) untraversed	65	R601 Dry NC weighing	T	M3 N2	
		108	P708 Propellant exhibition & non explosive ingredient weighing	U	M10 N4	
iv)	E. Give numbers of all occupied non-explosive buildings within the OOD and give details at 1 overleaf	60	-			
	F. Nearest building (dwelling house, church, etc.)	500	Quinton Hill Farm			
	G. Nearest road, railway, canal, river.	455	A112			

Date **11/7/80** Signature *[Signature]* Head of Establishment

Unrelaxed Explosive Limits (leave blank for CSO's use)

HQ 1.3 C - 100kg.

Date **28.8.80** Chief Safety Officer *[Signature]*

See overleaf for relaxations (where appropriate)

1. Details of Buildings shown at E overleaf. (A sketch of the area should be attached)

Building No.	Use	Distance in metres	T or U	Workers present M & N	Remarks	Leave this column for C.S.O.

2. Brief reference to any factors influencing the relaxation such as special procedures or written instructions that counter the additional potential hazard of the building:-

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3.

Is the fire cover in accordance with the recommended Establishment Fire Risk Classification?	Yes
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4. Relaxation approved

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

Relaxation Extended (See Note v).

Hazard Division	Period		Signature
	From	To	
Limit (Kgs)			Chief Safety Officer _____ Date _____

