MINISTRY OF DEFENCE (PROCUREMENT EXECUTIVE) - EXPLOSIVES LIMITS

AMO ICER(PE)71. CR LST.

PROPERLANCE ELECTIONS

(Revised 12/78) (Replacing Gen Form 49)

L. LANATORY 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.

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.

Establis	PERME WALT					(If	lding No. grouped ldings. o	with ot	her rooms or
Use	Traver Untrav	tive State - sed (T) or ersed (U) - type of Tray		Hazard Divisions	Compatiblity Groups		PRO	P 0 S 1	
	eary use for U	type of Trave nstruction or no. walls and Brick,							
filled	ling case of 1 I Oystercatcher : motor	Slate ro	007	1.3	С	M	3		25
If this i	s to replace an existing l	imit, please	state dat	te pres ent 1	limit approved.			•	a a
Explan- atory notes,	Factor influencing Explosives limit	Distance in Metres 2			of building		T or U	workers present M & N 5	1
iii	Inside Perimeter Fence	73	G433	Locker N	Ana.	· · · · · · · · · · · · · · · · · · ·	U	M2 N	n
	A. Nearest Explosives Storage Unit (a) traversed (b) untraversed	195	N532		/e Storehous	3e	Т	M3 N	
îv	B. Main Office	25	N509	Canteen			U	N	6
iv	C. Main Engineering Workshop	22	G431	Stores			U	N.	20
	D. Nearest Explosives Process Building (a) traversed and (b) untraversed	22	G432	Labs & C)ffices		U	N	27
îv)	E. Give numbers of all occupied non-explosiv buildings within the OQD and give details at 1 overleaf	60	G418 N506 N505		3		>		
M	Outside Perimeter Fence F. Nearest building (dwelling house, church, etc.)	135	Indust	rial Est	ate				
	G. Nearest road, railway, canal, river.	85 > 400	Motorw A112	ay under	constructi	ion		1	
Date!	r July 1982	Signature	AI	Belt		•••••		. Head o	of Establishment
Unrelaxed	Explosive Limits (leave b	lank for CSO!	s use)					14	

Date Chief Safety Officer

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

Use	Distance in metres	Tor	Workers present M & N	Remarks	Leave this column for C.S.O.
Non-explosive processing	The second designation of the second designa	E Description of the Control of the	TO THE PROPERTY OF THE PROPERT		
(Flammable solvents may be in use).	25	U	N 20		
Offices and Labs, associated with G430	20	U	N 6		
Telephone exchange, typing pool and offices	27	U	N 15		
	Total Control of the			The contract of the contract o	
	Andreas and the control of the contr		El-ambitum a complex mit complex		
	Non-explosive processing (Flammable solvents may be in use). Offices and Labs, associated with G430 Telephone exchange,	Non-explosive processing (Flammable solvents may be in use). 25 Offices and Labs, associated with G430 20 Telephone exchange,	Non-explosive processing (Flammable solvents may be in use). Offices and Labs, associated with G430 Telephone exchange,	Non-explosive processing (Flammable solvents may be in use). Offices and Labs, associated with G430 Telephone exchange,	Non-explosive processing (Flammable solvents may be in use). Offices and Labs, associated with G430 Telephone exchange,

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 Dystercatcher motor. Restrictions to ne 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

4. Relaxation approved

Hazard		Per	iod	C • I				
Division		From -	То	Signature				
Limit (Kgs)	LIMIT AS PROPOSED.	12-4-13	29-4-83	Chief Safety Officer Number Date 12 - Apple 63				

Relaxation Extended (See Note v).

Hazard Division	Per	iod	Sianakuna
Division	From	То	Signature
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.

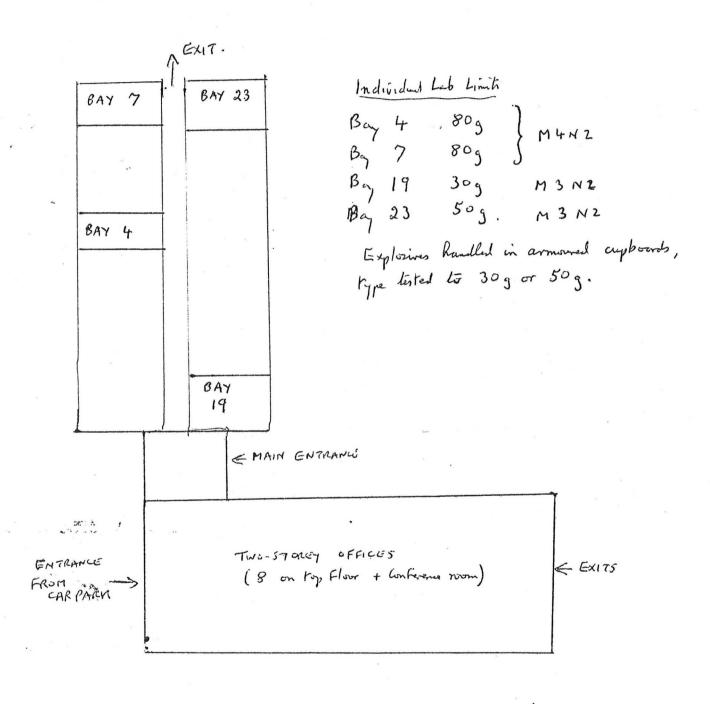
v. The detail of buildings and distances shown below should be checked to ensure no change has taken place before requesting an extension to the period covered by existing relaxation.

Establish		ESS	RME, WAL		BBEY		(If	lding No. grouped ldings. g		rooms or	
Vs e		ve State - d (T) or sed (U) - pe of Trave truction of walls and	erse,	Hazard Compatib rse, Divisions Groups			PRO imit M&N i)		osive Limit e ii) (Kgs)		
Process Research Laboratories U. 9" Brick 6" R.C roof				vall	1.1	D		30 N27 top flo		250g	
f this i	s to replace an exis	ting lim	it. please	state da	te present	limit approved.		***************************************			
explan- atory notes ,	Factor influencing Explosives limit		Distance in Metres 2			of building		T or U	Workers present M & N 5	For C.S.O. use 6	
111	Inside Perimeter Fence A. Nearest Explosives Storage Unit (a) traversed (b) untraversed				Locker M Explosiv	agazine es Storehou	ıse	U	M2 NO M3 NO	ada. Ç	
îv	B. Main Office		18	reng	Proposed	Offices		U	N16		
iv	C. Main Engineerin Workshop	ig	150	G408	Building	Workshops		U	N20		
pal.	D. Nearest Explosi Process Buildin (a) traversed (b) untraverse	g and	195 50		Proposed	Research Compatibil ity Facilit		T	M3 N2 N4 N2		
iv)	E. Give numbers of occupied non-ex buildings withi the OQD and giv details at 1 ov	all plosive n e erleaf	-		-						
	Outside Perimeter F. Nearest building (dwelling house, church, etc.)	Fence	135 400		trial Es field Wa	tate lk Estate					
	G. Nearest road, railway, canal, river.		325 90	A112 Prope	sed M25						
Date	16 February 19	181. s	ignature	13.1	4. Newn	an			. Head of	Establishmer	

H9 1017 - 250 grows destrabulis as listed.

Date	23-3-8/	Chief Safety Officer	NImkees.
Soo	overleaf for relevations (wh	ana anananiata)	

Building No.	Use	Distance in metres	T or	Workers present M & N	Remarks	Leave this column for C.S.
		~				
						1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	_					
4 Lab	oratories with individu	al lower li	mits			
	cover in accordance with the	recommended Est		it Fire Risk	< Classifica	ation? Yes
		recommended Est	ahlishmen	at Fire Risk	< Classifica	Yes
Is the fire Relaxation Hazard Division			ahlishmen	at Fire Risk	< Classifica	Yes Signature
Relaxation Hazard		recommended Est	ahlishmen od		c Classifica	Signature
Relaxation dazard Division limit (Kgs)		recommended Est	ahlishmen od			Signature
Relaxation Hazard Division Hait Kgs)	aporoved	recommended Est	od To			Signature Ficer Date
Relaxation Jazard Jivision Jigit Kgs)	aporoved	recommended Est Per	od To			Signature



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.

Js e		Otective State -	WHICKE			(If	lding No. grouped ldings. g	with oth	er rooms or
	Tr Un	aversed (T) or traversed (U) - ate type of Trave d construction of ilding, walls and	rse, Lroof	Hazard Divisions	Compatiblity Groups	Man Li (Note	imit M&N		D plosive Limit ote ii) (Kgs)
3 Lock		Standard ERDE		a) 1.1 or b) 1.3	Any		M2NO		a) 2kg or b) 5kg (per locker
f this i	s to replace an existi	ng limit, please	state dat	te present	limit approved.				
xplan- atory otes ,	Factor influencing Explosives limit	Distance in Metres 2			of building		T or U	Workers present M & N 5	The second secon
111	Inside Perimeter Fenc A. Nearest Explosive Storage Unit (a) traversed (b) untraversed		N532	Explosi	ves Storeho	use	Т	M3NO	
iv	B. Main Office	8		Propose	d Main Offi	ces	U	20	-
iv	C. Main Engineering Workshop	200	G412	Carpente	ers Wkshop		U	12	
9	D. Nearest Explosive Process Building (a) traversed an (b) untraversed	0		Laborato			U	24	
îv)	E. Give numbers of a occupied non-explouildings within the OQD and give details at 1 over	osive leaf							
	Outside Perimeter Fe F. Nearest building (dwelling house, church, etc.)	400	Lodge	Lane Es	sta te	-			
	G. Nearest road, railway, canal, river.	100		sed M25					
Date	15/8/80	Signature		SHNEW	man			. Head o	f Establishmen
	Explosive Limits (lear								
	02	(a) HD 10	3 —	2 Kgp 5 Kgp	? pas la	eku .			

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

Building No.	Use	Distance in metres	T or	Workers present M & N	Remarks	Leave this column for C.S.O
		- 2				
		٥				entino - 1 di 10 di
Is the fir	e cover in accordance with the re	ecommended Esta	hlishment	Fire Risk	Classifica	tion? Yes
Relaxation						165
	approved					165
	approved	Perj	od			
	approved	Per i From	od To			Signature
ivision init	approved					
Division Limit	approved				f Safety Of	Signature
init (Kgs)	Extended (See Note v).	From	To			Signature
Hazard Division Limit (Kgs) Relaxation Hazard Division			To		f Safety Of	Signature

Hazard
Division

From
To

Signature

Chief Safety Officer

Date

EXPLANATORY NOTES -

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v. The detail of buildings and distances shown below should be checked to ensure no change has taken place before

	nment - ROF W		m Abbey				(If	grouped	M321 wa with other ive detail		
Js e		Travers	tive State - sed (T) or ersed (U) -		Hazard	Compatiblity	PRO Man Limit M&N (Note i)			osive Limit	
		State i and cor buildir	type of Travenstruction of	rse, roof	rse, Divisions Groups			1)	(Not	(Note ii) (Kgs)	
of sma motors trials	ive storage ll rocket during firing me only	ncrete blo nstruction ght roof		1.3	С	M3	N2		20		
f this i	s to replace an exis	ting li	mit, please	state da	te present	limit approved.	, (5.10.69			
xplan- atory notes ,	Factor influencing Explosives limit		Distance in Metres			of building		TorU	Workers present M & N	For C.S.O.	
	1		2		3			4	5	6	
iii	Inside Perimeter Fe A. Nearest Explosi		64	M326 Gunpowder magazine				Т	M2 N0		
	Storage Unit (a) traversed (b) untraversed		230	M355 Locker Magazine				U	M2 NO		
iv	B. Main Office		310	N505	Typing F	ool + Tel E	Exch	U	N14		
iv	C. Main Engineerin Workshop	ıg	140	M331	Electric	ians Worksh	пор	U	M12		
	D. Nearest Explosi Process Buildin		110	M342	Charge M	Machining		Т	M3 N2		
	(a) traversed	and	245	M343	Explosiv	e Processir	ng	U			
îv)	E. Give numbers of occupied non-ex buildings withi the OQD and giv details at 1 ov	all plosiv n	-								
	Outside Perimeter F. Nearest building (dwelling house, church, etc.)	Fence	>400								
	G. Nearest road, railway, canal, river.		125	M25							
7040	26th June	1984	Signature			Albert			. Head of	Establishmen	

PROPOSED LIMITS APPROVED

Date	2-7-85	Chief Safety Officer	NImkees.

Building No.	Use	Distance in metres	T or	Workers present M & N	Remarks	Leave this col	umn for C.S.O.
		× g					
	ce to any factors influen dditional potential hazar			s special p	procedures o	r ⊍ritten instru	ctions that
	ke observation poir		ahlishmen	t Fire Risk	: Classifica	tion?	Yes
Relaxation appr	.uveq		n Marijiya ay fire da kasan kanan ay kay fire				22000 6_45 5145 025 020 020 020 020 020 020 020 020 02
Hazard		Per	od			Signature	
		From .	To	1			
Division			10				
Division Ligit			,,,				
Division Light (Kgs)				Chie	f Safety Of	ficer	
Division Ligit (Kgs)	nded (See Note v).			Chie	f Safety Of		
Division Limit (Kgs) Relaxation Exter		Per			f Safety Of	Date	
Division Limit (Kgs)	nded (See Note v).	Per					
Division Limit (Kgs) Relaxation Exter		Per	od			DateSignature	

EXPLANATORY NOTES -

- i. Both the maximum permitted Man Limit (H) and the number normally present (N) are required.
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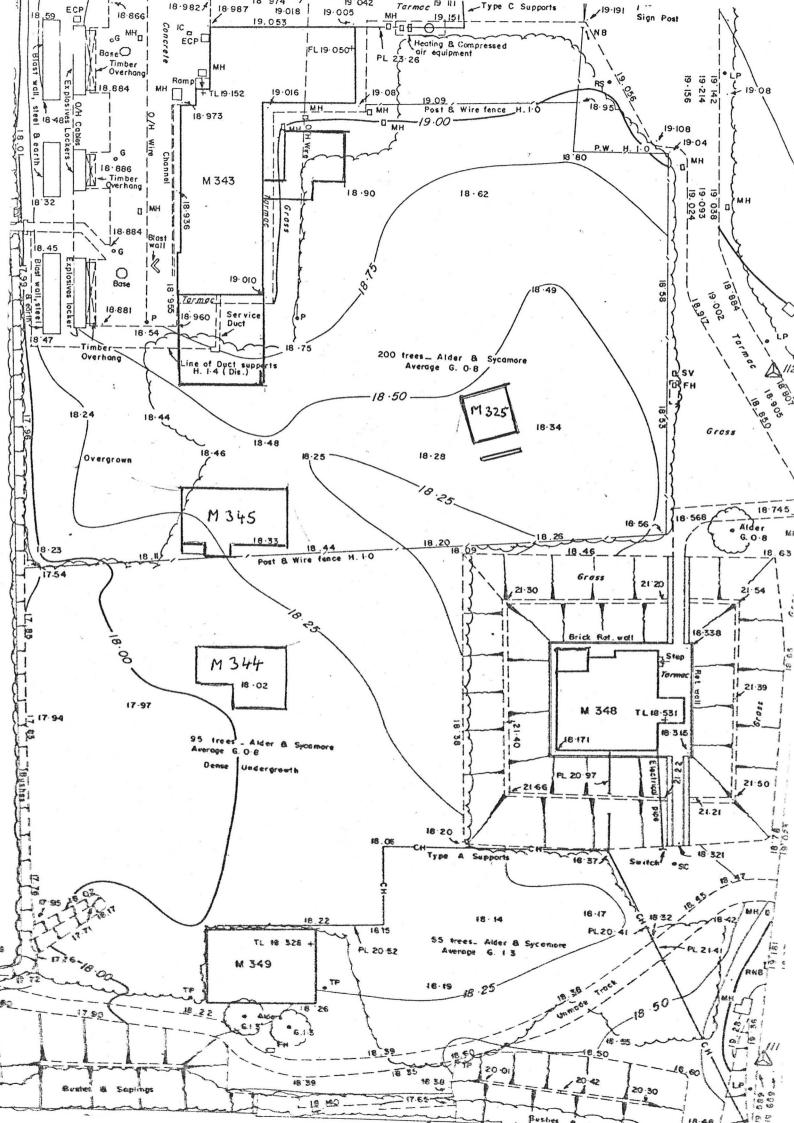
v. The detail of buildings and distances shown below should be checked to ensure no change has taken place before requesting an extension to the period covered by existing relaxation.

stablish	PERME, W	altham Ab				(If	lding No. grouped i ldings. g	with ot	325 her rooms or ails)
Ise	Travers Untrave State t	tive State - sed (T) or ersed (U) - type of Trave estruction of no. valls and	rse,	Hazard Divisions	Compatiblity Groups	Man L (Note	imit M&N		E D xplosive Limit Note ii) (Kgs)
Exper	nse Magazine U.	9" Brick 6" R.C R		1.3	С	M2	NO		10
f this i	s to replace an existing li	mit, please	state da	te present	limit approved.		,		
xplan- atory notes,	Factor influencing Explosives limit	Distance In Metres		**************************************	of building		T or U	Worker presen M & N 5	
111	Inside Perimeter Fence A. Nearest Explosives Storage Unit	? 30	м348		ves Storeho	use	T	M3NC	
	(a) traversed (b) untraversed			055	a 11km = 10 m	2001			
iv	B. Main Office	180	N505		s, Typing P one Exchang		U	N 14	
iv	C. Main Engineering Workshop	180	M331	Electri	cians Works	hop	U	M 12	
	D. Nearest Explosives Process Building (a) traversed and (b) untraversed	26	M343	Ballist	ics Assessm	ent	Ŭ	M 20 N 16	
īv)	E. Give numbers of all occupied non-explosiv buildings within the OQD and give details at 1 overleaf	-	*				ie		
	Outside Perimeter Fence F. Nearest building (dwelling house, church, etc.)	% 00		ø					
	G. Nearest road, railway, canal, river.	310	M 25					1	
Date	1/12/82	Signature		K	1 Bels		····pP.	. Head	of Establishmen

PROPOSED LIMITS APPROVED

Date 18-8-83 Chief Safety Officer

Bullding No.	Use	Distance in metres	T or	Workers present H & H	Remarks	Leave this column for C.S
						,
					19	
	40.5.4			-, -, -		
				231		
	re cover in accordance with the	recommended Est	ablishmen	t Fire Risk	Classifica	tion? Yes
	re cover in accordance with the			t Fire Risk	c Classifica	tion? Yes
Relaxatio Nazard		Per	iod	t Fire Risk	c Classifica	tion? Yes Signature
Relaxatio azard	n approved			t Fire Risk	Classifica	
Relaxatio lazard Division	n approved	Per	iod	t Fire Risk	c Classifica	
	n approved	Per	iod		<	Signature
Relaxatio lazard Division	n approved	Per	iod		c Classifica	Signature
Relaxatio lazard Division	n approved	Per	iod		<	Signature
Relaxatio lazard Division imit Kgs)	n approved	Per From	To		<	Signature
Relaxation azard Division imit Kgs)	n approved	Per From	iod		<	Signature ficer Date
Relaxation azard Division imit Kgs)	n approved	Per From	To		<	Signature
Relaxation lazard Division limit (Kgs) Relaxation Relaxation	n approved	Per From Per	To		ef Safety Of	Signature ficer Date
Relaxatio lazard Division limit (Kgs)	n approved	Per From Per	To	Chie	ef Safety Of	Signature ficer Date Signature



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.

	shment - PERME Waltham Ab	bey		33				(if gro	g No. M32 uped with gs, give d	other rooms or
Use			tive State	-	UN	Competi			PROPO	SED
		Untra	rsed (T) or versed (U) - type of Tra- l, construct ing, walls a	verse, or	Hazard Class	Compati- bility Group(s)	Man Limit M&N (Note i)		1	plosive Limit ote ii) (Kgs)
agazi: gunpo	ne for wder	Т	, Earth		1.1	D			San C.A.	50
If this	is to replace an exis	sting 1	mit, please	state dat	e present	limit approved.	THE PURE NAMED OF THE PURE NAM			
Explan- atory notes	Factor influence Explosives limit		Distance in Metres	Nu		se of building	*	T or U	Workers present M & N	For C.S.O. use
111	Inside Perimeter Fo A. Nearest Explosion Storage Unit (a) traversed (b) untraversed	a.) 250 b) 57		lagazine	agazine (1.	T U	5	0		
iv.	B. Main Office		200	Proposed SE offices				U	10	
iγ	C. Main Engineering Workshop	g	82	M331 E	lectric	ian Worksho		M 12		
	D. Nearest Explosive Process Building (a) traversed (b) untraversed	3	150	E		andling factoring tall gunpowers		T		
iv) v)	E. Give numbers of other occupied buildings within the OQD and give details at 1 over	1	25	- NI	L .					
	Outside Perimeter F F. Nearest building (dwelling house, church, etc.)	3	340	Factor	y estate	Э				
	G. Nearest road, railway, canal, river.		140 305	Grid Lea Na	vigation	Canal				
Date	12/79		Signature			May			Head of H	Establishment
Catego Limi Date	t (Kgs) UN.149.				odn oul			zz 		
	O. use	/ WITELS	appropriate)	,			-			

Building No.		Use			Distance in metres	Tor	Workers present M & N	Remarks	Leave this column for C.S.C
					× 3°				
),6	
				- 0		i e e e e e Edit	8 8 8		
	licence		oe re	viewed	when propo			(160m) is	open.
	***		_		Per	iod			
ategory	1	Y	Z	ZZ	from	t	.0		Signature
Limit (Kgs)		,Ú		general.		C =			
	x a	e g	1.0	1100	ei eni gadani				y Officer
laxation	Extended (See Note	vi).					*****	
			_		Per	fod		4. 4	Gi anntuno
ategory	X	T	Z	ZZ	from	to		24 - 14 - 1 ×	Signature
Limit (Kgs)					සම සම	0.0 JAN		(4) (E.) (1) (1)	
					Lagra seld MOTMAR		4 .*Di	Chief Safet	y Officer
	Extended (See Note	vi).		1				
laxation :					Per	iod			
	x	Y	Z	ZZ	from	to			Signature
ategory Limit	x	Y	Z	ZZ		to			Signature

EXPLANATORY NOTES -

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Establish	PE	SEX E	WALTHAM N9 1BP	ABBEY,			(If	ding No. grouped dings. g	M338 with othe ive detai	r rooms or ls)
Us e		Travers Untrave State s	tive State - sed (T) or ersed (U) - type of Trave istruction of ng. walls and	erse,	Hazard Divisions	Compatiblity Groups		PROP Man Limit M&N (Note i)		D losive Limit te ii) (Kgs)
Proces (Curre	emote Control ssing Facility ently used unpowder inve- tions)	T. 12"	Earth & T R/C wall R/roof w w out wal	orpedo s ith	1.1	ת	М4	N2		4.5
lf this i	s to replace an exis	sting li	mit, please	state da	te present	limit approved.	14	1-5-68	500	
Explan- atory notes ,	Factor influencing Explosives limit)	Distance in Metres 2	Numi	ber and use	of building		T or U	Workers present M & N 5	For C.S.O. use
iii	Inside Perimeter Fe A. Nearest Explosi Storage Unit (a) traversed (b) untraversed	ves	57 135	M355 M348	Locker Magazine			T	мз мо	
iv	B. Main Office		37	Propos	sed E Brased Office	anch Office	S	Ü	N 12 N10	
۱̈۷	C. Main Engineerir Workshop	ıg	80	G412				U	N16	
	D. Nearest Explosi Process Buildir (a) traversed (b) untraverse	ng and	55			e Explosive os & Office		U	M10 N8	
iv)	E. Give numbers of occupied non-ex buildings withi the OQD and giv details at 1 ov	all plosiv n	eng							
	Outside Perimeter F. Nearest building (dwelling house church, etc.)	Fence	275	Indus	strial E	state				
	G. Nearest road, railway, canal, river.	,	185	Propo	osed M25					
Date	16 February 1	981.	Signature	10	.H. Ner	oman		• • • • • • •	. Head of	Establishmen

HO1010 - 40549.

Date 23-3-81 Chief Safety Officer NImbees

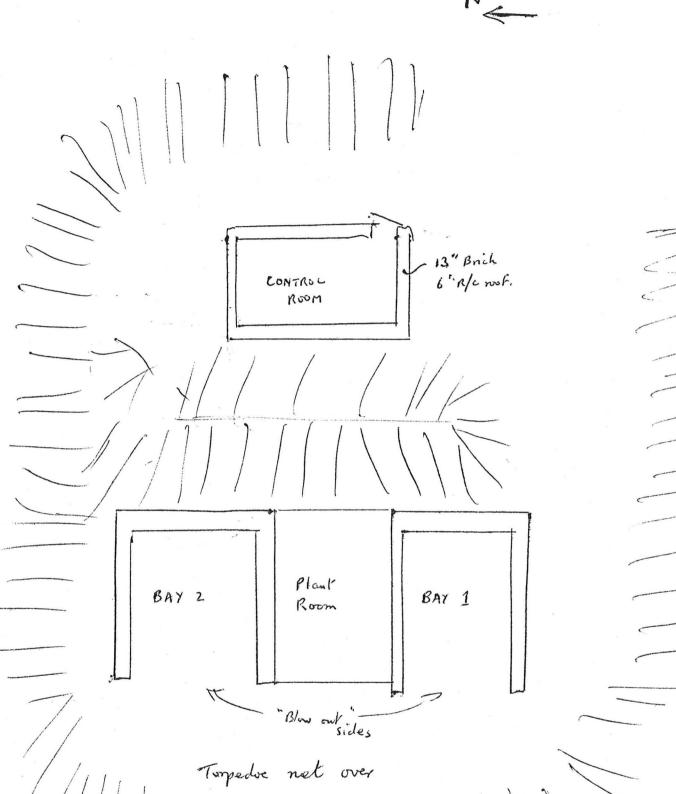
1.	Details of	Buildings	shown	at	E overleaf.	(A	sketch	of	the	area	should	be	attached)
----	------------	-----------	-------	----	-------------	----	--------	----	-----	------	--------	----	-----------

Building No.	Use	Distance in metres	T or	Workers present M & N	Remarks	Leave this column for C.S.O.
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					1.01.	
	∴=, l				325	

1					1				
Q*.				int. Lum Ec 1. L					<u>L</u> : 0
Brief reference to	any factors influenc	cing the relevati	on such as	snecial n	rocedures	r writ	ten i	nstruc	tions that
	onal potential hazar			эрестат р	1 000001 65 01	, will	(OII	notif uc	CIONS THAT
	manna anthri brini lati e de de de la la sancia e angle è e an aguelta de sancia								
	*								
21									
21				\$ - 1	, 2	2			
	n accordance with the	e recommended Est				tion?			Yes
Is the fire cover i	n accordance with the	e recommended Est	tablishment			tion?			Yes
Is the fire cover i Relaxation approved	n accordance with the	e recommended Est	tablishment						Yes
Is the fire cover i Relaxation approved	n accordance with the	e recommended Est	tablishment				naturo	9	Yes
Is the fire cover i Relaxation approved Hazard Division	n accordance with the	e recommended Est	ahlishment iod				naturo	9	Yes
Is the fire cover i Relaxation approved Hazard Division Limit	n accordance with the	e recommended Est	ahlishment iod	Fire Risk	Classifica	Sig	natur		Yes
Is the fire cover i	n accordance with the	e recommended Est	ahlishment iod	Fire Risk	Classifica	Sig	naturo	2	Yes

Hazard		Per	100	·
Division		From	То	· Signature
Limit (Kgs)				
,				Chief Safety Officer Date
		122		Wasses And State and an all regulated to the part of the all regulated and regulated a

Hazard Division	Per	iod	C
Division	From	To	Signature
Limit (Kgs)		<i>*</i>	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 bef

Establish		Walth	am Abbey,	Essex	a'.		(1-	ilding No. f grouped ildinas. o	with other	er rooms or	
Use		Travers Untrave	ive State - ed (T) or rsed (U) - ype of Trave struction of o, walls and	erse, I roof	UN Class Hazard Divisions	Compatiblity Groups	. Aty	PRO Limit M&N	POSE		
and compression 3			Earth sides ick, beard & felt roof		1.1	D	M5,	M5, N2		25	
lf this i	s to replace an exis	sting li	mit, please	state dat	te present	limit approved	1.	11.1.78	•		
Explan- atory notes ,	Factor influencing Explosives limit	9	Distance in Metres	Numb	Number and use of building			T or U	Workers present M & N	For C.S.O.	
iii	Inside Perimeter Fo A. Nearest Explosi Storage Unit (a) traversed (b) untraversed	ives	167	R607 Explosives Storehouse UN Class 1.1 or 1.3				T	Nil	6	
iv	B. Main Office		312	Propos	sed SE O	ffice		U	10		
iv	C. Main Engineerii Workshop	ng	202 167			ians Works sport Works		U	4 3		
	D. Nearest Explosi Process Buildin (a) traversed (b) untraverse	ng and	107	Propos	sed 31b	ſest Facil	ity	T	3	before pr PDS	
iv)	E. Give numbers of occupied non-exhibitings with the OQD and give details at 1 over the occupied occupied to the occupied occupied to the occupied occupied to the occupied occupied to the oc	fall xplosive in	207	M350,	G405						
	Outside Perimeter F. Nearest building (dwelling house church, etc.)	9	165 150		Keepers (Camp Sit						
	G. Nearest road, railway, canal river.	,	180 82	River Power	Lea Navi Grid						
Date	16-4-8	4	Signature	• • • • • • • • • • • • • • • • • • • •	•••••	ATB	elb	pr.	. Head of	Establishment	
1	Explosive Limits (No EXPLOSIVES No EXPLOSIVES	70	BE TAKE	EN INT	O BUIL	DING WH	EN TH	HE SCO	UT CA	MP IS IN USE	

	Date	2-7-85	Chief Safety Officer	NImRey.
1	C	1	\	

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

Building No.	Use	Distance in metres	T or	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		
						*
					7.	

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.	200000									
	15	the	fire	cover	in	accordance	with	the	recommended Establishment Fire Risk Classification?	YES
									,	

4. Relaxation approved

Hazard	Perji	iod	\$:		
Hazard Division	From	То	Signature		
Ligit (Kgs)					
			Chief Safety Officer		
			Date		

Relaxation Extended (See Note v).

Hazard	Per	iod	Signature			
Division	From	To	Signature			
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

Sensitiv Composit Manufac f this is xplan- ttory otes,	Traver Untrav State and co buildi C Assessment V reness Tests R/C R/C	tive State - sed (T) or ersed (U) - type of Trave nstruction of no. walls and R/C or br roof imit, please	erse, f froof iek	Hazard Divisions 1.1 8: 1.3	Compatiblity Groups C D G	Man Li (Note M20 I	mit M&N	(Not	osive Limit e ii) (Kgs)	
Sensitiv Composit Manufac f this is xplan- ttory otes,	reness Tests te Propellant ture to replace an existing 1	roof		8: 1.3	CDG	M20 I	1 16	36		
xplan- itory notes ,	Factor influencing	1	state dat	te present					36	
xplan- itory notes ,	Factor influencing	1			limit approved.	-	13-11-7	3		
		in Metres 2	Numb		of building			Workers present M & N	For C.S.O. use 6	
	Inside Perimeter Fence A. Nearest Explosives 63			8 Explosive Store 5 Expense Store			T	M3NO M2NO	Permania Silveria	
iv B	. Main Office	1 20	N 505	Typing P	ool, Exchang	ge	υ	N 14		
iv C	iv C. Main Engineering 140				ians Wksp		U	M20N16		
D	Process Building (a) traversed and (b) untraversed	6	M 362	New Cl	osed Vessel		U	M4N2	, , , , , , , , , , , , , , , , , , , ,	
iv) E	. Give numbers of all occupied non-explosiv buildings within the OQD and give details at 1 overleaf	_								
1	utside Perimeter Fence . Nearest building (dwelling house, church, etc.)	>400								
G	 Nearest road, railway, canal, river. 	>400								
Date	97 11-05	Signature			ATBek	+	Rn	. Head of	Establishment	
PROP ENDO cettare For hol plan	xplosive Limits (leave b OSED LIMIT RSEMENTS: - Led plan. 2) ding explosives coloured aree	lank for CSO! API Dis When E theys	s use) Rove Sous Sous shoule	Eand Early	5 men 1. 1. 1. 1	es ingli	THE	FOLL	WING	

1.	Details of	Buildings	shown	at 6	overleaf.	(A	sketch	of	the	area	should be	attached)

Building No.	Use	Distance in metres	T or	Workers present M & N	Remarks	Leave this column for C.S.O.
		~ g				
						acted to ex-
	5 120		1 - 1	pre t		

2. Brief reference to any factors influencing the relaxation such as special procedures or written instructions that counter the additional patential 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 orD

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

Yes

4. Relaxation approved

Hazard	Per	iod	C+1		
Division	From -	To	• Signature		
Licit (Kgs)					
	2		Chief Safety Officer Date		

Relaxation Extended (See Note v).

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

Œ	Strand	Burner	1	2100	1 2 0
H	Strond	Birmer	1	28.5	10000

I Closed Vessel Test300g. 1.1. or 1.3. C

J Conditioning Cabinets 5kg *.*
K Sample Preparation 2kg 1.1 2kg 1.1.0 G

L Calorimetry

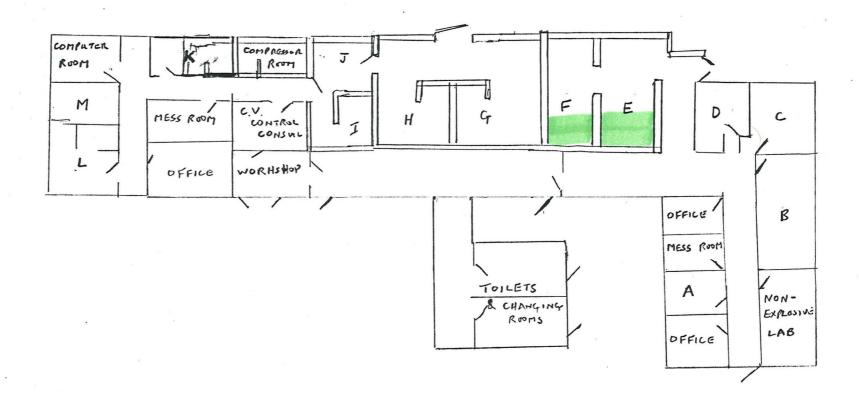
500g1.1.or 1.3.0

A	Electrose	ensitivene	zz Testa	ع500
B	Friction	Tents		2k
C	Impact &	Ignition	Teats	2k
				-

D Physical Tests

Process Bay Process Bay

g. 1.1.A C D G kg 1.1. C D G kg 1.1. C D G 5kg. 1.1. CD 500g max charge 10kg 1.1. G D 10kg 1.1. G D



EXPLANATORY NOTES -

1. 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

Establish	uesting an extension	Walth	nam Abbey		STEETING TOT		(If			er rooms or
Use		Travers Untrave State 1	tive State - sed (T) or ersed (U) - type of Trave nstruction of no yalls and	rse,	Hazard Divisions	Compatiblity Groups	Man Li (Note	imit M&N		D plosive Limit pte ii) (Kgs)
	er Test Stand	U, F	Reinforced crete bloc R/C roof	l 6"	1.3	С	[v[2N1		1
If this i Explan- atory notes ,	Factor influencing Explosives limit	g	Distance in Metres	·		limit approved.		T or U	Workers present M & N	For C.S.O. use
111	Inside Perimeter F A. Nearest Explos Storage Unit		36	M348		ve Storehou	se	T	M3NO	
De Paris per transportant and	(a) traversed	d	36	M325		Magazine		U	M2N0	
iv	B. Main Office		205	N506		s, Typing P phone Excha		U	N14	
iv	C. Main Engineeri Workshop		205	M331	Electri	cians Works	hop	U	M12	
	D. Nearest Explos Process Buildi (a) traversed (b) untravers	ng and	11	M345	Proof S	tand		U	M4N2	
iv)	E. Give numbers o occupied non-e buildings with the OQD and gi details at 1 o	fall xplosiv in ve						* .		
	Outside Perimeter F. Nearest buildin (dwelling house church, etc.)	Fence	> 400							
	G. Nearest road, railway, canal	,	350	M 25						
	river.									

PROPOSED LIMITS APPRO

-	Date	18-8-83	Chief Safety Officer	NTinker	
	500				

Butlding No.	Use		Distance in metres	T or	Horkers present H & H	Remarks	Leave this colum	nn for C.S.O
				-		a		
			~-jr ·	- 1 2				
-	4°7	8.00				A CAMP		
							- 2	
	4" 1, 4							
					154 of 10		5	
	,					11 5 mm C		
i.		*		. (
	,							
						7.1 4.1 7.1		,
	c (100g) fired from charges.	M) T) . 113		No g Firing	7.	Rum	Ing	
of o	charges. e cover in accordance wit			No g Firing	11/2/201	Purm		Yes
of o	charges. e cover in accordance wit		nended Esta	Firmy Firmy	11/2/201	Purm		Yes
Is the fir Relaxation	charges. e cover in accordance wit	h the recomm	pended Estal	Firmy Dishment	11/2/201	Purm		Yes
Is the fir Relaxation	charges. e cover in accordance wit	h the recomm	nended Esta	Firmy Firmy	11/2/201	Purm	ation?	Yes
Is the fir Relaxation Hazard Division	charges. e cover in accordance wit	h the recomm	pended Estal	Firmy Dishment	Fire Risk	Purm	ation?	Yes
Is the fir Relaxation Hazard Division	charges. e cover in accordance wit	h the recomm	pended Estal	Firmy Dishment	Fire Risk	Classifica	ation?	Yes
Is the fir Relaxation Hazard Division	charges. e cover in accordance wit	h the recomm	pended Estal	Firmy Dishment	Fire Risk	Classifica	stion?	Yes
Is the fir Relaxation Value of the state of	charges. e cover in accordance wit	h the recomm	pended Estal	Firmy Dishment	Fire Risk	Classifica	stion?	Yes
Is the fir Relaxation Hazard Division Limit (Kgs)	charges. e cover in accordance wit	h the recomm	pended Estal	Firmy Dishment	Fire Risk	Classifica	Signature	Yes
Is the fir Relaxation Hazard Division Limit (Kgs)	charges.	h the recomm	pended Estal	Firmy olishment	Fire Risk	Classifica	Signature Ficer Date	Yes
Is the fir Relaxation lazard Division Limit (Kgs)	charges.	h the recomm	Perion	Firmy olishment	Fire Risk	Classifica	Signature	Yes
Is the fir Relaxation Hazard Division Limit (Kgs) Relaxation Hazard	charges.	h the recomm	Peri	Firm od To	Fire Risk	Classifica	Signature Ficer Date	Yes
Is the fir Relaxation Hazard Division Limit (Kgs)	charges.	h the recomm	Peri	Firm od To	Fire Risk	Classifica	Signature Signature	Yes

EXPLANATORY NOTES -

MINI

- 1. Both the maximum permitted Man Limit (H) 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

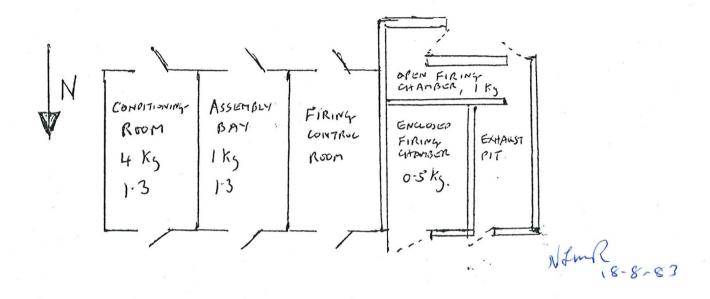
Establish	ment - PERME,	Waltham Abbe	ey			(If	lding No. grouped ldings_ a	with othe	r rooms or
Use		tective State -						POSE	
,	Unto Sta and	versed (T) or raversed (U) - te type of Trave construction of	erse,	Hazard Divisions	Compatiblity Groups	Man L (Note	imit M&N	Exp	losive Limit te ii) (Kgs)
Proof	Stand U, in Pr	ding valls and Firing char R/C, R/C reparation & ys, brick, l	mber oof, contro	,	С	М4	N2 ,		5
If this i	s to replace an existing	limit, please	state da	te present	limit approved.				
Explan- atory notes ,	Factor influencing Explosives limit	Distance in Metres	· ·		of building		T or U	Morkers present M & N	For C.S.O. use 6
111	Inside Perimeter Fence	37	м 348	Explosi	ves Storeho	nise	4 亚	M3NO	1
111	A. Nearest Explosives Storage Unit (a) traversed (b) untraversed	25			Magazine		U	M2NO	
iv	B. Main Office	185	N506	Offices,	Typing Poo e Exchange	1 &	. U	N14	
iv	C. Main Engineering Workshoo	185			ians Worksh	ıop	Ū	M12	
	D. Nearest Explosives Process Building (a) traversed and (b) untraversed	11	M344	Shatter stand	test proof		Ū	M2N1	
iv)	E. Give numbers of al occupied non-explo buildings within the OQD and give details at 1 overl	sive							
	Outside Perimeter Fen F. Nearest building (dwelling house, church, etc.)	> 400							
	G. Nearest road, railway, canal, river.	335	M 25						

Date 1/12/82 Signature ATBebt
Unrelaxed Explosive Limits (leave blank for CSO's use) Head of Establishment

PROPOSED LIMITS APPROVED

Date	18-8-83	Chief	Safety	Officer	NJunkels-
------	---------	-------	--------	---------	-----------

	Use		stance in tres	T or	Workers present H & H	Remarks	Leave this column for C.S
				·			
			- 3¢			-	2 ⁴ 4
				9		L.	
							, , ,
						2 A A C A C A C A C A C A C A C A C A C	
	re cover in accordance with the	recommend	led Estab	olishmen	t Fire Risk	< Classifica	tion? Yes
	re cover in accordance with the many approved	recommend			t Fire Risk	< Classifica	
Relaxation			Perio	nd	t Fire Risk	∢ Classifica	
Relaxation		recommend	Perio		t Fire Risk	« Classifica	Yes
Relaxation lazard Division			Perio	nd	t Fire Risk	« Classifica	Yes
Relaxation lazard Division			Perio	nd		<	Yes
Relaxation lazard Division			Perio	nd			Signature
Relaxation lazard Division			Perio	nd		<	Yes
Relaxation Hazard Division Limit (Kgs)			Perio	nd		<	Signature
Relaxation lazard Division limit (Kgs)	n approved		Perio	To .		<	Signature ficer Date
Relaxation lazard Division limit (Kgs)	n approved		Perjo	To .		ef Safety Of	Signature
Relaxation lazard Division limit (Kgs) Relaxation lazard Division	n approved	From	Perjo	To od	Chie	ef Safety Of	Signature ficer Date
Relaxation Hazard Division Limit (Kgs)	n approved	From	Perjo	To od	Chie	ef Safety Of	Signature Signature



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.

Establish	ROF Wa	ltham Ab		o de conseguiros de la conseguiro de la co			(If	ding No. grouped dings. g	M348 with other ive detail	rooms or
Us e		Protective Traversed				,		PRO	POSED	
		Untraversed Untraverse State type and constr building.	ed (U) - e of Trave	rse,	Hazard Divisions	Compatiblity Groups	Man Li (Note	imit M&N i)		osive Limit e ii) (Kgs)
	rive Storehouse + rive Weighing	T, Eart Brick (Tile ro	Constru	ction.	1.1	C or D	M3	NO	+	50 1 DX drying
lf this i	s to replace an exis	ting limit	, please	state dat	te present	limit approved.	3.	9.83		
Explan- atory notes ,	Factor influencing Explosives limit 1	Di	stance Metres 2			of building		T or U	Workers present M & N 5	For C.S.O. use 6
iii	Inside Perimeter Fe A. Nearest Explosi Storage Unit (a) traversed (b) untraversed	ves	63 30			ant Storeho Magazine	use	T U	M5 N0 M2 N0	
iv	B. Main Office		187	N505	Typists	, Telephone	Exch	U	N14	
iv	C. Main Engineerin Workshop		217	M331	Electric	cians Works	hop	U	M12	
	D. Nearest Explosive Process Building (a) traversed (b) untraverse	g and	63 36		Ballist: Proof St	ic Assessme cand	nt et	U U	M20 N16 M4 N2	
îv)	E. Give numbers of occupied non-ex buildings within the OQD and give details at 1 ov	all plosive n								
	Outside Perimeter F. Nearest building (dwelling house, church, etc.)	Fence >	400							
	G. Nearest road, railway, canal, river.		400							
Date?	26 H. June 193	5 Sig	nature	• • • • • • • •	•••••		7/Ber	5 pp.	. Head of	Establishmer

PROPOSED LIMITS APPROVED SUBJECT TO THE FOLLOWING ENDORSEMENT:

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

Date	12-4-88	Chief Safety Officer	NIMICEL
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Building No.	Use	Distance in metres	T or	Workers present M & N	Remarks	Leave this colum	in for C.S.O
						TO SERVICE OF SERVICE	
	e to any factors influe ditional potential haza			s special p	procedures o	r written instruct	ions that
Weighing f	ied only on an oc acility geographi checking, not dis	ically separate	e from	or sturd storage	space, wi	ill only be us	ed
ls the fire cov	er in accordance with t	the recommended Est	ahlishmer	t Fire Risk	c Classifica	tion?	Yes
Relaxation apor	nved	aparatin caratin de valor de distribuit de la caratin de valor de la caratin de valor de la caratin de valor d					
azard	eerin a guuppatan uutuudunudunud kaa aatimapkaa kati kapuu kaapilikakuud oodun da kuttu eerin aa	Per	iod			Signature	-
ivision		From	To			Jighature	ražoviji nastvo z governý vistovišký krovo (po vý voch v
iait Kgs)							
		ß.		Chie	ef Safety Of	Date	
elaxation Exten	ded (See Note v).	ora					
dazard Division		Per	iod To			Signature	Macadioresta proved eschedirective state assessment
imit Kgs)							
NOS1		1		1			

Date

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.

Establis	hment - PERME, Wa	altham	Abbey, E	ssex				(if grou	iped with	550 Group n other rooms of details)
Use		A STATE OF THE PARTY OF	tive State -	•	UN Clas	s Compatibi	lity	1	ROPO	SED
	natificación convers	Untrav State if (U)	rsed (T) or versed (U) - type of Trav , constructi ing, walls ar	on of	Quantity Distance Category	Group Explosive Group(s)		Limit M&l te i)		Explosive Limit (Note ii) (Kgs)
	que Impact t Facility	3	ncrete an sides con	RETE BLOG		D	M 2		and the second s	10
If this	is to replace an exis	and the second second		Service and the service of the servi	e present	limit approved.		11-1-	78	
Explan- atory notes	Factor influence		Distance in Metres	Nu	mber and u	se of building		TorU	Worker: present M & N	For C.S.O.
	1		2	*************		3		4	5	6
111	Inside Perimeter Fe A. Nearest Explosiv Storage Unit (a) traversed (b) untraversed		65		Explosi lass 1.1	ves Storeho	use	Т	-	
iv	B. Main Office	-	125	Propo	sed SE 0	ffice		U	10	149.1
iv	C. Main Engineering Workshop	3	180	М 331	Electri	cians Works	hop	U	OVERN THE WAY	
	D. Nearest Explosive Process Building (a) traversed (b) untraversed	3	84	M 343				Ū	l barre	
iv) v)	E. Give numbers of other occupied buildings within the OQD and give details at 1 ove	pod A	270	Propo	sed tele	R 626 phone excha	nge			1.00gs 183
	Outside Perimeter F F. Nearest building (dwelling house, church, etc.)	5	400 365		keepers camp si					(Algorithm)
	G. Nearest road, railway, canal, river.		405 235	River Power	Lea Nav Grid	igation				and the second of the second o
Date	16127		Signature		4	Manten.			Head of	Establishment
Unrelaxe	d Explosive Limits	-					Na Maria			Stephilina and appropriate property and the constraints
Catego: Limit	ry t (Kgs)		9. 10Kg		À		1	22		
Date See over	leaf for relaxations		Chief Safe		r	GANNAN.				

1. Details of Buildings shown at E overleaf.

Building No.	Use	Distance in metres	T or	Workers present M & N	Remarks	Leave this column for C.S.O.
M 342	Machining of HE Charges	215	Т			
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		1-1
R 626	Proposed Process Building					
	Combustible Cartridge Cases	245	U			
505	Proposed Telephone Exchange	245	U	M4,N2	9" Brica	K CHAMCED.
	Proposed 3 lb Test Facility	100	T	north Grand State Control	roof	

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.

Cotomore		V 7	77	Per	iod		
Category	•	Y Z	ZZ	from to		Signature	
Limit (Kgs)					1 25-21		
				62-24		Chief Safety Officer	
					,	Date	

Relaxation Extended (See Note vi).

		Peri	od	Signature		
Category	X Y Z ZZ	from	to			
Limit (Kgs)						
				Chief Safety Officer		

Relaxation Extended (See Note vi).

					Per	riod	
Category	Х	Y	Z	ZZ	from to		Signature
Limit (Kgs)							
							Chief Safety Officer

MINISTRY OF DEFENCE (PROCUREMENT EXECUTIVE) - EXPLOSIVES LIMITS

CER(PE)71 (Revised 12/78) (Replacing Gen Form 49)

EXPL, GORY NOTES -

- 1. Both the maximum permitted Man Limit (H) 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.

Establish	ment - PERME, Waltham	Abbe					(If	lding No. grouped things, of	M 353 with other ive detai	r rooms or
Use		Travers Untrave State t	ive State - sed (T) or ersed (U) - type of Trave struction of a, yalls and	erse,	Hazard Divisions	Co≈patiblity Groups		PRO	POSE	
Storag Detona Ignite	tors,	6" R/	9" brick C roof r raid shelter)		1 ₊ 1. 1 ₊ 3 1.4	B G B&S	M3 1	NO		20
	s to replace an exis	ting li	alt, please	state da	te present	limit approved.				
Explan- atory notes,	Factor influencing Explosives limit 1		Distance in Metres 2	Num	ber and use	of building		Tor U	present M & N 5	For C.S.O. use 6
111	Inside Perimeter Fe A. Nearest Explosi Storage Unit (a) traversed (b) untraversed	ves	65 210	Expen	Propella se Magazi M 350	ant Storeho ine near	use	U	M4NO M3N6	in p
iv	B. Main Office		450	Typing	Telepho pool &	ne exchange offices	,	. U	N 14	
iv	C. Main Engineerin Workshop	ig	300	м 331	Electric	ians Shop.	***********	U	M 12	
Ÿ	D. Nearest Explosi Process Buildin (a) traversed (b) untraverse	ig and	92	М 342	Charge	Machining		T	M5N2	
iv)	E. Give numbers of occupied non-ex buildings within the OQD and give details at 1 over the occupied of the occupied occupied the occupied	all plosiv								
	Outside Perimeter F. Nearest building (dwelling house church, etc.)	Fence	177 127	Scout	Keepers Hut.					
	G. Nearest road, railway, canal	,	122 167		(centre Navigatio					

Date 5rd Mark 1983 Signature 5/1/Sevs pp. Head of Establish

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

PROPOSED LIMITS APPROVED

18-8-83		NIMREES.
Date	. Chief Safety Officer	W. Junely

uilding No.	Use	Distance in metres	T or	Harkers present H & H	Remarks	Leave this co	lumn for C.S.
		,					
	; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;						
					: ·	.05	• • • • • • • • • • • • • • • • • • •
Differe	the additional potential hazard at Compatibility Groups we epers Cottage currently u at only used for a few ho	inoccupiea.			d.		
Different Lock Kee Scout H	nt Compatibility Groups w	unoccupied. ours per wee	k norma	11.y.		tion?	Yes
Different Lock Kee Scout Ho	nt Compatibility Groups we pers Cottage currently want only used for a few hore	recommended Es	k norma	11.y.		tion?	Yes
Different Lock Kee Scout Holls the fi	nt Compatibility Groups we pers Cottage currently wat only used for a few hore recover in accordance with the on approved	recommended Es	k norma	11.y.		tion? Signature	Yes
Different Lock Kee Scout Holls the fi	nt Compatibility Groups we pers Cottage currently wat only used for a few hore recover in accordance with the on approved	recommended Es	k norma	t Fire Risk			Yes
Different Lock Kee Scout Horacard Division	nt Compatibility Groups we pers Cottage currently wat only used for a few hore recover in accordance with the on approved	recommended Es	k norma	it Fire Risk		Signature	Yes
Different Lock Kee Scout Horacon Hazard Division Limit (Kgs)	nt Compatibility Groups we pers Cottage currently want only used for a few horse cover in accordance with the on approved	recommended Es	k norma	it Fire Risk	Classifica	Signature ficer	Yes
Different Lock Kee Scout Horizont Hazard Division Limit (Kgs)	nt Compatibility Groups we pers Cottage currently wat only used for a few hore recover in accordance with the on approved	recommended Es	k norma	it Fire Risk	Classifica	Signature ficer Date	Yes
Different Lock Kee Scout Horizont Hazard Division Limit (Kgs)	nt Compatibility Groups we pers Cottage currently want only used for a few horse cover in accordance with the on approved	recommended Es	k norma	it Fire Risk	Classifica	Signature ficer 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.

Use		WAITHAM ABBE		X	1	(If	dings, g	with ive d	etail	
*	T _r Ur	raversed (T) or ntraversed (U) = tate type of Travi nd construction o		Hazard Divisions	Compatiblity Groups	Man Li (Note	mit M&N	POS	Exp1	osive Limit e ii) (Kgs)
3 Locke		ilding, walls and Standard ERDE	d roof	a) 1.1 or b) 1.3	Any	B	12NO		b)	2kg or 5kg (per cker
	s to replace an existi	ng limit, please	state da	te present	limit approved.					
explan- atory notes,	Factor influencing Explosives limit	Distance in Metres 2	Numb	ber and use	of building		T or U	worke prese M &	ent	For C.S.O. use 6
iii	Inside Perimeter Fend A. Nearest Explosive Storage Unit (a) traversed (b) untraversed	ce	N545 azine	Proposed	l Locker Mag	g	T	M4N	10	
iv	B. Main Office	(45	N506	Telephon	ne Exch/Typ d Directors	Pool Bldg	Ü	12)	
iv	C. Main Engineering Workshop	20			ers Wkshops		U	12		
L.	D. Nearest Explosive Process Building (a) traversed ar			Gunpowde Lopment	er Process		T	MĄN	12	
îv)	E. Give numbers of a occupied non-expl buildings within the OQD and give details at 1 over	osive Pleaf ence	T 1							
	F. Nearest building (dwelling house, church, etc.)	600	Lodge	Lane Es	state				anananana	
	G. Nearest road, railway, canal, river.	125	Propo	sed M25						
Date	15/8/80 Explosive Limits (lea			BHNen	man	•••••	•••••	. Head	d of	Establishmer
		(b) HO		- 2 Kep	{ Pw Lack	ું કર્યું ભા				1

Building No.	Use	Distance in metres	T or	Workers present M & N	Remarks	Leave this column for C.S.O
			F		117.	
			9 4			
Is the fire cove	r in accordance with the		ahlishmer	t Fire Risk	Classifica	tion? Yes
		Per	iod			
Hazard Division		From	То		100	Signature
lait (Kgs)				Chie	f Safety Of	Ficer Date
Relaxation Extend	ed (See Note v).		VI.			
łazard Division	. 3	Per From	iod To	1 5 -		Signature
-imit (Kgs)					f Safety Off	

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

		tham Abbey				(If	lding No. grouped ldings. g	N 500 with other ive detail	rooms or	
Us e	1	rotective State -				PROPOSED				
	Ur St ar	ntraversed (U) - tate type of Trav nd construction o	rsed (T) or versed (U) - type of Traverse, onstruction of ing, walls and roof		Compatiblity Groups	Man L (Note	imit M&N		osive Limit e ii) (Kgs)	
Ready—I Explos Storeho	ive F	ſ. Earth R∕C, board ar felt roof	Earth board and		C & D	M 2 N O		40		
lf this i	s to replace an existi	ng limit, please	state da	te present	limit approved.	_				
Explan- atory notes ,	Factor influencing Explosives limit	Distance in Metres	T		of building		TorU	workers present M & N	For C.S.O.	
	1	2		3			4	5	6	
iii	Inside Perimeter Fenc A. Nearest Explosive Storage Unit	9	N 547 N 325	Ready-l			T	M5 NO		
	(a) traversed (b) untraversed				Magazine		U	M2 NO		
îv	B. Main Office	94	N 505	Typing Telepho	Pool and one Exchange	9	U	N12		
iv	C. Main Engineering Workshop	180	G 408		es Workshop		U	M30		
	D. Nearest Explosive Process Building	es 110	N 548	Sieving	g House		T	M4 NO		
	(a) traversed ar	nd 84	M 343	Explosi	ive Processi	ing	U	M20 N16		
iv)	E. Give numbers of a occupied non-expl buildings within the OQD and give details at 1 over	osive	M 329 G 430 N 506 N 509							
,	Outside Perimeter Fo F. Nearest building (dwelling house, church, etc.)	>400								
Ŧ	G. Nearest road, railway, canal, river.	260	M25		443 (1941)					

PROPOSED LIMITS APPROVED

	Date 2-J-85	Chief Safety Officer	NImRes.
ı			

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

Building No.	Use	Distance in metres	T or	Workers present M & N	Remarks	Leave this column for C.S.O.
M 329	Electrical Section Office	160	U	N2		
G 430 N 506	Composite Materials Processing Composite Materials Labs and Offices	130	U)) N8)		
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	Per	iod	C. I	
	From -	То	· Signature	
Licit (Kgs)			Chief Safety Officer Date	

Hazard Division	7 JV	Per	iod	Signature
	- · · · · ·	From	То	Signature
Limit (Kgs)				Chief Safety Officer
			<i>y</i> .	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.

Establis			m Abbey				(If	lding No. grouped ldinas. o	with	other	rooms or
			ive State -				PROPOSED				
The State of the S	Traversed (T) or Untraversed (U) - State type of Traver and construction of building, walls and		erse, f	Hazard Divisions	Compatiblity Groups	Man Limit M&N (Note i)		Explosive Li (Note ii) (K			
Nitration House, for materials of low sensitivity T, Earth and Steel Net Sheet asbesto B and F r			s clad,	The second secon			M4N3			90 (45 unit risk)	
If this i	is to replace an exi	sting lin	mit. please	state dat	e present	limit approved.	1 7	7 68			
Explan- atory notes ,	Factor influencin Explosives limit	g	Distance in Metres		per and use	of building		TorU	work pres M &	ent N	For C.S.O.
iii	i Inside Perimeter Fence A. Nearest Explosives 132 Storage Unit (a) traversed (b) untraversed			N532 Explosives Storehouse				T	M3	SNO	mod Land
iv	B. Main Office (90				DO Offi Eng "	ce)under		U	N1		
iv	C. Main Engineering 142 Workshop			G445 G444 G440	tion s	Ü	N1 N1	-			
	D. Nearest Explos Process Buildi (a) traversed (b) untravers	ng and	62	N534	Pilot P hazardo	T	M4	N3			
iv)	E. Give numbers of all occupied non-explosive 31 buildings within the OQD and give details at 1 overleaf Outside Perimeter Fence										- ' '
					ousing at Lodge Lane						
	G. Nearest road, railway, canal river.	,	90 105	A112 M25 (under construction)							
-410 666			Signature		erman				. Hea	d of	Establishment
Unrelaxed	d Explosive Limits (leave bla	ank for CSO!	s use)							
			HO -	1.10) –	901Cep	(45	Ky pa	Bo	y)	

Dat	e 18-12-81	Chief Safety Officer	NImkels.
Dat	e01,2-01	Chief Safety Officer	JAS WILLIAM

1. Details of Buildings shown at E overleaf. (A sketch of the area should be attached) T or Distance Workers Building Use Leave this column for C.S.O. Remarks present in No. M & N U metres 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. Is the fire cover in accordance with the recommended Establishment Fire Risk Classification? YES 4. Relaxation approved Period Hazard Signature Division From To Limit (Kqs)Chief Safety Officer Date Relaxation Extended (See Note v). Period Hazard Signature Division From To Limit (K_{QS}) Chief Safety Officer

Date

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

Establis		PERME	Waltham I	Abbey		= 3		(if grow	g No. N5 uped with gs, give o	other rooms or	
			ctive State	TIAT		COMPATI-	PROPOSED				
Untr Stat if (Untra State if (U	rersed (T) or aversed (U) - e type of Traverse, or U), construction of ding, walls and roof		HAZARD CLASS	BILITY GROUP	Man Limit Man (Note i)			Explosive Limit (Note ii) (Kgs)	
Experi nitrat:	mental ion	Т,	earth		1.1	D	M	3 N2		10	
If this	is to replace an exis	sting 1	imit, please	state dat	e present	limit approved.		18-11-6	8		
Explan- atory notes	Factor influence Explosives limi		Distance in Metres	Nu	mber and us	se of building	1.	T or U	Workers present M & N	For C.S.O.	
	1 1					3	4	5	6		
111	iii Inside Perimeter Fence A. Nearest Explosives Storage Unit (a) traversed (b) untraversed			N532 M	agaz i ne		T earth	M4 N2			
iv	B. Main Office	Main Office 67				bs & Office	s	U			
iv	C. Main Engineering Workshop 357				WD Works			U			
	D. Nearest Explosives Process Building 62 (a) traversed (b) untraversed				xplosive ilot Pla	s processin	T earth	4			
(v) v)	E. Give numbers of other occupied buildings within the OQD and give details at 1 over	1	25	Nil				_			
	Outside Perimeter Fence F. Nearest building (dwelling house, church, etc.)			Quinton Hill Farm Bungalows at end of Lodge Lane							
	G. Nearest road, railway, canal, river.		162	A112	s of						
Date	24 378		Signature		MINIO	Mr			Head of	Establishment	
Catego Limi	t (Kgs)		-10 kg		·	I man		EZ			
Date	last for relevantes		Chief Safe		r			• • • • • • • • • •	••••		
for C.S.	leaf for relaxations	/ MTGL6	appropriate)	*				-			
OI CODO	O+ use										

Building No.		Use		Distance in metres	Tor	Workers present M & N		Leave this column for C.S.O
								a
				0105000				*
Brief refe	rence to	o any factors tional potent	s influence	ing the relaxa	tion suc	ch as spe	cial procedur	res or written instructions
	to an armiton of the							
Relaxation	approve	ed.		T		-		
Category	x	y z	ZZ	Per	10d	50	Signature	
Limit (Kgs)	-		1:05 177	a gradual	0880	QV'a !		
		100100	1 200	. La Les II		1		y Officer
elaxation Ext	ended (See Note vi).						
Category	x	Y Z	Z Z		bol			Signature
Limit			and the	from	te		Cr.	
(Kgs)						1111	Chief Safety Officer	
				***	,			Date
elaxation Ext	ended (S	See Note vi).					VA A	1 (1-14)
Category	x	Y Z	zz	Per	iod			Signature
Limit (Kgs)				from	to)		
(nga)							Chief Safet	y Officer
				1	1			

EXPLANATORY NOTES -

MI

1. 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.

*************	nment - PERME Walth	-					(If		N532 with other ive detail	r rooms or
Use			ive State -					PRO	POSE	D
Traversed (T) or Untraversed (U) - State type of Trave and construction of building valls and			rse, I roof	Hazard Divisions	Compatiblity Groups	Man Li (Note	imit M&N	Exp	Explosive Limit (Note ii) (Kgs)	
Ready Explos storeh	r - use sive	Steel shee	rth frame wi t asbesto ding.	th	1.1.	.D	M3N	0	(4	200 x 50)
If this i	s to replace an exis	tina li	mit nlease	state da	te present	limit approved	25-	7-68		
explan- atory notes,	Factor influencing Explosives limit		Distance in Metres			of building		T or U	Workers present M & N 5	For C.S.O. use 6
111	Inside Perimeter Fe A. Nearest Explosi Storage Unit (a) traversed (b) untraversed	ves	125	G 433	Locker 1	lag.		Ü	M3NO	
iv	B. Main Office		92	G 441	Main Adı	nin Offices		σ	N16	
iv	C. Main Engineerin	ng	320	G 408	Service	Workshop		Ū	N20	
	D. Nearest Explosi Process Buildir (a) traversed (b) untraverse	ng and	46 152 .	N 536 N 550	experiment Composi	ves Process ntal) te Propella facture		T U	M 3N2 M6 N3	
iv)	E. Give numbers of occupied non-ex buildings with the OQD and giv details at 1 ov	fall xplosiv in	180	N 51 N 50 G 43	3 N 5.	31		4		
	Outside Perimeter F. Nearest building (dwelling house church, etc.)	Fence g	300	Beech	nfield Wa est	lk housing ate				
	G. Nearest road, railway, canal		190	M 25)					

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 Junkey.	
---	--

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

Building No.	Use	Distance in metres	T or	Workers present H & N	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					- H
	Research offices and labs.	138	U	N 26		
N 531	Non-explosive process					- 5 -
	(currently used as inert	42	U	-		**
	s tore)					
N 534	Non-explosive hazardous	100		35 (37)		, '
	materials processing	100	U	M4N3		
			_3		1 20 100	
			1			
		2 0				
					l	

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

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

Yes

4. Relaxation approved

Hazard Division	;	Perj	od	\$* !			
		From .	To	Signature			
Limit (Kgs)							
			2	Chief Safety Officer			
			. *	Date			

Hazard Division		Per	iod	00000	
		From	To	Signature	
Licit (Kas)					
	* * * * * * * * * * * * * * * * * * * *	Same Dille		Chief Safety Officer	
				Date	

MINISTRY OF TECHNOLOGY EXPLOSIVES LIMITS

ESTABLISHMENT - E	RDE		weeks or other sections	BUILDING (STATE E	BUILDIN	GS WI	TH	trol Room	
(Where appropriate).	,			WIIIOII	11.001 11.0				
Use	Proto	ctive State		Safety	Explosi	Vec	P R MAN	O P O S E D EXPLOSIVES LIMIT (1bs)	
O Se	Trave Untra State Trave	rsed (T) or versed (U) - type of rse, or, if ruction of		Distance Gategory	1	Group (s)		State quantity of each Category separately. If separate limits cannot be quoted for Z and ZZ, show the sum of the two.	
Experimental Processing		T. Earth		72	-		4	1,000 in N.534 only.	
If this is to replace an ex	cisting	limit, plea	ise stat	e date presen	t limit a	pprovec	-	7.5.1959	
Factor Influencing Explosives Limit				and use uilding	or U 4	Man Limit		For C.S.O. use	
INSIDE PERIMETER FEI A. Nearest Explosives Storage Unit (a) traversed (b) untraversed	NCE	N.53 335 Maga			T Eartl	ı 3	> 50,000		
B. Main Office		825 G.43 SCE		2 Offices	U	-	7.7	90.	
C. Main Engineering Workshop		1,120	G.41 BWD	8 Workshop	υ	-	10.2	00-	
D. Nearest Process Building (If untraversed state construction		150	N.53 Expe	7/8/9 rimental essing	T Earth	5	1,6	00	
E. Any other occupied building nearer than D		-			_	-			
OUTSIDE PERIMETER F. F. Nearest Building (Dwelling house Church, etc.)	ENCE	590	270	ton Hill rm	3 ?	3 200		•	
G. Nearest Road, Railway, Canal, River. (Give details)	Canal, River.		Α.	112	1,8	1,800 -			
Date 1/7/68			Signa	ture XI.	(deup	>>>	_ Head	of Establishment	
JNRELAXED EXPLOSIVES Category (i) Limit (lbs) ii) Special Cases covered		Х	Y —		z			zz 1000	
SEE OVERLEAF FOR REI Gen.Form 49 (Revised)				priate)	<u> </u>	QQI ief Saf	While	M.	

ADDITIONAL INFOR									
(1) Charge/Weig	ht Ratio of Ca	tegory Z Items				*** ****			
	ITEM				G	HARGE/WT.	RATIO		
				%					
		ssure of 15 p.s.i.					d ZZ only)		
		f the distances at				I OI HAPLOD	THE RESERVE		
Building No.		Use	22	Distance (ft)	or U	Man Limit	Remarks		
							,		
2 1.									
			30						
		Alba a	onian						
(7. 7. 1									
(Include al.	I buildings of	her than Latrines a	nd Service	s Installatio	ons no	rmally una	ttended)		
(4) Any other Fa	actors Influen	cing Relaxation	5.13	0.1					
(e.g. Maxim	um Unit risk -	nature of explosiv		r. Neonite, S	R	etc.)			
actach ske			Sive widili						
	709	10.00	Darren of						
			**	**					
(5) RELAXATION A	APPROVED		ETEL:	1 37.0					
Category X	<u>¥</u>	Z ZZ		Period			Signature		
			From	To			7.1		
LIMIT			1,61.	1					
(<u>lbs</u>)			7			Chiof C	ofoty Officer		
						Cirer S	afety Officer (Dat		
RELAXATION EXTEN	NDED		i.e.						
LIMIT (lbs)			3.						
						Chief S	afety Officer (Dat		
TIMIT							1200		
LIMIT (1bs)									

Chief Safety Officer

(Date)

WHERE THE LIMIT REQUIRED EXCEEDS THE UNRELAXED LIMITS (OVERLEAF) THE FOLLOWING

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.

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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.

	,	ltham Abbey,	Essex			(If	grouped		with N536 r rooms or ls)			
Us e		tective State -		LINI			PROPOSED					
Traversed (T) or Untraversed (U) - State type of Trave and construction of building, walls and			erse, f	UN Mazard Divisions Class	Compatiblity Groups	Man Limit M&N (Note i)			Explosive Limit (Note ii) (Kgs)			
Experimental T, Earth Explosive Processing Sheet Asbesto			os	1.1 D		М3,	M3, N2		10 kg			
	s to replace an existin	g limit, please	state da	te present	limit approved.	24	.4.78					
Explan- atory notes ,	Factor influencing Distance		Num	ber and use	of building		T or U	Workers present M & N 5	For C.S.O. use			
111-	Inside Perimeter Fence A. Nearest Explosives Storage Unit (a) traversed (b) untraversed		N532, Explosive Storehou (450 kg, 1.1)				T	-				
iv	B. Main Office	176	G441 Main Office				U	24				
iv	C. Main Engineering Workshop	202	N509	, Cantee	n		U					
	D. Nearest Explosives Process Building (a) traversed and (b) untraversed	45	N537,		perimental itration		T	M3, N2				
îv)	E. Give numbers of al occupied non-explo buildings within the OQD and give details at 1 overl	sive 108 eaf		, N557, I , N539	N531, N537,							
	Outside Perimeter Fen F. Nearest building (dwelling house, church, etc.)	202 225	- 0	ton Hill alows, e	Farm nd of Beech Wa							
	G. Nearest road, railway, canal, river.	178	A112	Sewards	tone Road							

PROPOSED LIMITS APPROVED

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

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

2.	Brief reference to any	factors influencing	the	relaxation suc	h as	special	procedures or	r 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		Perji	od	C•				
Hazard Division		From	То	Signature				
Limit (Kgs)								
				Chief Safety Officer Date				

Hazard	P	eriod	2
Division	Calv. From To	A O To. O	Signature (GRAORORY .
Limit (Kgs)	Imo Zu	iA.	58-1-8)
			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	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	Т	M7, N4		
The control of the co						
					*	

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.

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

YES

4. Relaxation approved

Hazard		Per	iod	S:L				
Hazard Division		From -	To	Signature				
Limit (Kgs)								
				Chief Safety Officer				
	V - 2			Date				

Hazard		Peri	iod	Signature			
Division	· ·	V From STA	To	orgnature ()			
Limit (Kgs)		1 Emplu	1	58-1-51			
				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

Establish		Valtha	am Abbey				(If		with othe	538/N539 r rooms or 1s)	
Vs e		Travers Untrave	ive State - sed (T) or ersed (U) -	Hazard Compatiblity					POSE		
TO THE STATE OF TH		State t and con buildin	ype of Trave struction of o, walls and	erse, f d roof	Divisions	Groups	(Note	1)		(Note ii) (Kgs)	
	Experimental Processing Close together, buseparately travers		gs r, but	1.1	D	M6 N4 (M3 N2 for any one building)			45		
f this i	s to replace an exist	ting li	mit, please	state dat	te present	limit approved.	1.7	.68			
explan- atory notes,	Factor influencing Explosives limit		Distance in Metres 2	Numb	per and use	of building	T or U	workers present M & N 5	For C.S.O. use		
iii	Inside Perimeter Fer A. Nearest Explosiv Storage Unit (a) traversed (b) untraversed		110	N532 Explosives Storehouse			se mij	T misia ino j cro a	M3 NO	k dy feed and the	
iv	B. Main Office		190	G445 D0 (Under construction) U N10							
iv	C. Main Engineering Workshop	g	215	G440 E	lect & G	Glass Eng w	/s	. U	N12		
	D. Nearest Explosive Process Building (a) traversed a (b) untraversed	g and	36	N540 Experimental Processing (Drying)				T	M4 NO		
îv)	E. Give numbers of occupied non-exp buildings within the OQD and give details at 1 ove	all olosive n	-								
	Outside Perimeter F F. Nearest building (dwelling house, church, etc.)		127	Quinto	n Hill F	arm					
	G. Nearest road, railway, canal, river.		75	A112 (95 m)	realignm	nent will gi	ive				
Date	111/8;		Signature		D.H. Newn	m		• • • • • • • •	. Head of	Establishmer	

HO 1.10 - 45 Kgs with the restriction in Pana:

Dat	18-12-81	Chief Safety Officer	NTMRees.
See	overleaf for relaxations (wh	ere appropriate)	

Building No.	Use	Distance in metres	T or	Workers present M & N	Remarks	Leave this column	n for C.S.O
6, 3		× gi					
\$					5		
1 C	torpedo" netting erected r process at one time. ´ sed for storage when not	III ka limit	ner n	וחוחוווו	TOL DIOC	BOO DUL NOOT	NUU
ls the fir							
13 (10 11)	ε cover in accordance with the re	commended Estab	lishmen	t Fire Risk	Classifica	tion?	Yes
		commended Estab	lishmen	t Fire Risk	Classifica	tion?	Yes
Relaxation		ecommended Estab		t Fire Risk	Classifica		Yes
Relaxation azard				t Fire Risk	Classifica	tion? Signature	Yes
Relaxation azard livision		Perio	d	t Fire Risk	Classifica		Yes
Relaxation dazard Division		Perio	d		Classifica	Signature	Yes
Relaxation Hazard Division Limit (Kgs)	apnroved	Perio	d			Signature ficer	Yes
Relaxation dazard division isit (Kgs)	approved	Perio	To.			Signature ficer Date	Yes
Relaxation dazard division isit (Kgs)	approved	Perio	To.			Signature ficer	Yes
Relaxation Hazard Division Limit (Kgs)	approved	Perio	d To	Chie		Signature ficer Date Signature	Yes

MI

CER(PE)71 (Revised 12/78) (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 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.

Establish	PERME, Walth					(If	lding No. grouped ldings. g	with	other	rooms or s)
Use	Trav Unti Stav and	tective State - versed (T) or raversed (U) - te type of Trave construction or ding, walls and	erse, f	Hazard Divisions	Compatiblity Groups	Man L (Note	PRO imit M&N i)	PO	Explo	osive Limit e ii) (Kgs)
Oven	Ad ne Sh	, earth. ditional To t traverse eet asbesto d roof.	to east		D	M 3	8 N O		10	0
If this i	s to replace an existing	limit, please	state da	te present	limit approved.	. 17	12 74			
Explan- atory notes,	Factor influencing Explosives limit 1	Distance in Metres 2	1		of building		T or U	pres M &	ent N	For C.S.D. use 6
iii	Inside Perimeter Fence A. Nearest Explosives Storage Unit (a) traversed (b) untraversed	105	N532 Explosive Store unit			nit	T	М3	NO	edelte See deel Choose
iv	B. Main Office	240	N509	Cantee	n	ν,	U	Π		
iv	C. Main Engineering Warkshop	220	G444	/5 Engi	neering Off	ices	U	M26	N20	
a.Y	D. Nearest Explosives Process Building (a) traversed and (b) untraversed	40	N550	,			U	M6	N4	
īv)	E. Give numbers of all occupied non-explose buildings within the OQD and give details at 1 overla	sive -								
	Outside Perimeter Fend F. Nearest building (dwelling house, church, etc.)		Quin	ton Hill	Farm					
	G. Nearest road, railway, canal, river.	143	A112				- ,			
Date	27-8-82	Signature			ATREA	P	pp	. Hea	d of l	Establishment

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

PROPOSED LIMITS APPROVED

Date	22-12-82	Chief	Safety	Officer	N Imkees
------	----------	-------	--------	---------	----------

Building No.	Use	Distance in metres	T or	Workers present M & N	Remarks	Leave this co	lumn for C.S.
					2		
	afect y				D. or vida		
		ľ		-			
			2 2, 12				
	1 p					1 1 1 1 1	
ast wal s equip	divided internally by light, with external torpedo nament store (no explosives)	et travers	e givi	ng 45° c	over to	east. West	against Bay used
ast wal s equip	1, with external torpedo n	et travers	e givi	ng 45° c	over to	east. West	against Bay used Yes
ast wal s equip	1, with external torpedo no ment store (no explosives)	ommended Esta	e givi	ng 45° c	over to	east. West	Bay used
ast wal s equip Is the fi	1, with external torpedo no ment store (no explosives)	ommended Esta	e givi	ng 45° c	over to	east. West	Bay used
ast wal s equip Is the fi Relaxatio azard ivision	1, with external torpedo no ment store (no explosives)	ommended Esta Peri	e givi	ng 45° c	over to	east. West	Bay used
ast wal s equip Is the fi Relaxatio azard ivision	1, with external torpedo no ment store (no explosives)	ommended Esta Peri	e givi	ng 45° c	over to	east. West	Bay used
ast wal s equip Is the fin Relaxation azard ivision	1, with external torpedo no ment store (no explosives)	ommended Esta Peri	e givi	ng 45° c	over to	east. West	Bay used
ast wal is equip	1, with external torpedo noment store (no explosives) re cover in accordance with the rec	ommended Esta Peri	e givi	ng 45° c	over to	east. West	Bay used
ast wals equip	1, with external torpedo noment store (no explosives) re cover in accordance with the rec	ommended Esta Peri	e givi	ng 45° c	Classifica	east. West	Bay used
ast wal s equip Is the fi Relaxatio azard ivision imit Kgs)	1, with external torpedo noment store (no explosives) re cover in accordance with the reconnapproved	ommended Esta Peri	e givi	ng 45° c	Classifica	east. West Ation? Signature	Bay used
ast wals equip	1, with external torpedo noment store (no explosives) re cover in accordance with the rec	ommended Esta Peri	e givi	ng 45° c	Classifica	east. West stion? Signature Date	Bay used
ast wals equip	1, with external torpedo noment store (no explosives) re cover in accordance with the reconnapproved	ommended Esta Peri	e givi	ng 45° c	Classifica	east. West Ation? Signature	Bay used
ast wals equip	1, with external torpedo noment store (no explosives) re cover in accordance with the reconnapproved	ommended Esta Peri	e givi	ng 45° c	Classifica	east. West stion? Signature Date	Bay used
ast wal s equip Is the fi Relaxatio azard ivision imit Kgs)	1, with external torpedo noment store (no explosives) re cover in accordance with the reconnapproved	ommended Esta Peri	e givi	t Fire Risk	Classifica	east. West stion? Signature Signature	Bay used

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.

Establish		•	m Abbey				(If	lding No. grouped ldings. g	with ot	her rooms or ails)
Us e		Traver Untrav	tive State - sed (T) or ersed (U) - type of Trave nstruction or no, walls and	erse, f	Hazard Divisions	Compatiblity Groups	Man L (Note	imit M&N		E D xplosive Limit Note ii) (Kgs)
Experi Explos: Proces	mental ive	U. and wall	Thick R/C roof, blo firing w R/C blas	walls w out est	1.1	D	M 4	N 3		100
f this i	s to replace an exis	sting 1	imit, please	state dat	e present	limit approved.				
explan- atory notes,	Factor influencing Explosives limit		Distance in Metres 2			of building		T or U	workers present M & N	
iii	Inside Perimeter Fe A. Nearest Explosi		132	N 532	,	Use Store		Т	M3 No	
	Storage Unit		206	N 570		est Facili	ty	U	M2 No)
iv	B. Main Office		98	N 509	Cante	en		U		
iv	C. Main Engineerin		275	G 408	Servic	ces Workshop)	U	M30	
	D. Nearest Explosi Process Buildin	ng	90	N 557	NG E>	traction		T	M9 N	3
	(a) traversed		128	N 549	Wet M	1ix		U	M8 No	6
îv)	E. Give numbers of occupied non-ex buildings within the OQD and give details at 1 ov	fall xplosiv in ve	180	N 506 N 513 N 505	G 431	G 458 G 432				
	Outside Perimeter F. Nearest building (dwelling house church, etc.)	Fence	330	Quint	on Hill	Farm				
-	G. Nearest road,			M25			-		T	

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

PROPOSED LIMITS APPROVED

Date	18-1-85	Chief Safety Officer	NImkeer.
See	overleaf for relaxations (wh	ere 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	Workers present M & N	Remarks	Leave this column for C.S.O.
N 506	Composite Materials Labs	V. 3				
	and Offices	148	U	N 8		
N 505	Typing Pool and Telephone	000m (0.0000 mile)				
	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		
	9.1					
	2 2 2 2					
					1	

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

Purpose-built PSA b	uilding designed t	to contain.	Any debris wi	ll be ejected	to west.

Is the fire cover in accordance with the recommended Establishment Fire Risk Classification?	Yes	1

4. Relaxation approved

Hazard	Per	iod	C+1		
Division	From -	То	Signature		
Ligit (Kgs)					
			Chief Safety Officer		
			Date		

Hazard	Peri	od	C	
Division		To	Signature 	
Limit (Kgs)	India.	1	Chief Safety Officer Date	

MINISTRY OF DEFENCE (PROCUREMENT EXECUTIVE) - EXPLOSIVES LIMITS

CER(PE)71 (Revised 12/78) (Replacing Gen Form 49)

EXPLANATORY NOTES -

i. Both the maximum permitted Man Limit (H) and the number normally present (N) are required.

ii. State quantity of explosive in each Hazard Division.

- ill. 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.

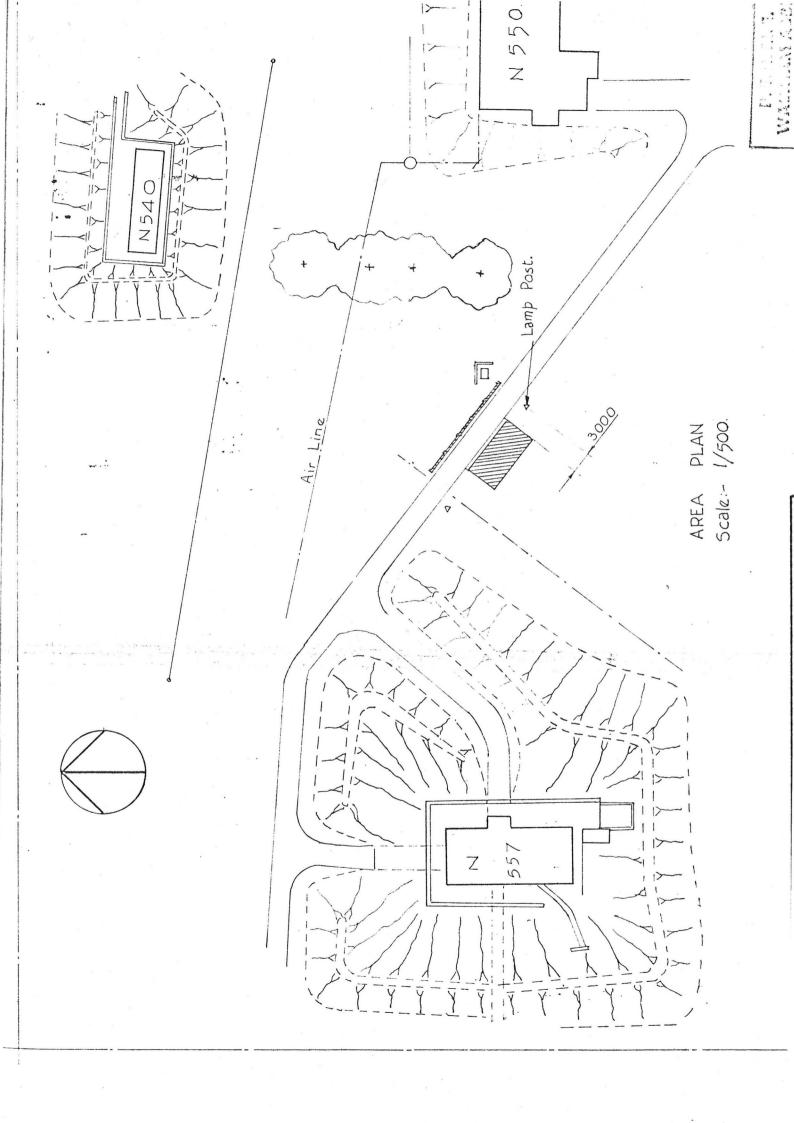
Establish		Valtha	m Abbey			•	(If		N 545 with other ive detail	
Use		Travers Untrave State t	ive State - sed (I) or ersed (U) - type of Trave struction of a valls and	rse,	Hazard Divisions	Compatiblity Groups	Man L (Note	imit M&N		osive Limit e ii) (Kgs)
	osives orehouse	"Unis Divi Bays whice	Brick, lided into by brick h gives rate roofs	ght 2 wall	1.3	С	M4	NO	(Un	1000 it risk 00)
	s to replace an exts	sting li	mit, please	state da	te present '	limit approved.	•			
Explan- atory notes ,	Factor influencing Explosives limit	9	Distance in Metres 2	Numi	per and use	of building		Tor U	present M & N	For C.S.O. use 6
111	Inside Perimeter Fo A. Nearest Explosi Storage Unit (a) traversed (b) untraversed	ives	- 50	N540	Explosi	ve Drying		T	мзио	
iv	B. Main Office		105	N562	P1 Of	fices		Ū	M33N27	
iv	C. Main Engineeri Workshop	ng	250	P754	Fire St	ation		Ū	M14N10	
1 10	D. Nearest Explos Process Buildi (a) traversed (b) untravers	ng a n d	40		Composi Propella	te nt Processi	ng	Low T	M8N6	
îv)	E. Give numbers o occupied non-e buildings with the OQD and gi details at 1 o	f all xplosiv in ve verleaf					,	,		
	Outside Perimeter F. Nearest buildin (dwelling house church, etc.)	Fence g	212	Quint	on Hill	Farm				
	G. Nearest road, railway, canal river.	9	175	A 1	12					
Date	14-4-83		Signature			Albel	5	2.p.	. Head of	Establishmen

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

PROPOSED LIMITS APPROVED

Date	18-8-83	Chief Safety Officen	NJmRus.	
	avarlage for relevations (wh			• •

Building No.	Use		Distance in metres	T or	Workers present M & N	Remarks	Leave this column for C.S.O
				·			
la e							
						-,	
-, -5,							, A 144
	1		,				
	3* **						
			1 , 1		3.0		
	4.7	()					n about
,					4,3,1	1 5	
						1 2	
agent)	ouse for N 550. 1 Bay the other for cured r	cocket m	otors am	aiting	g despato	en.	
agent)	the other for cured r	cocket m	otors aw				tion? Yes
agent)	the other for cured r	cocket m	ended Estat	blishaen			tion? Yes
Is the fir Relaxation	the other for cured r	cocket m	otors aw	blishaen	t Fire Risk		
agent) Is the fir Relaxation	the other for cured r	cocket m	ended Estat	blishaen	t Fire Risk		tion? Yes Signature
Is the fir Relaxation Hazard Division	the other for cured r	the recomm	ended Estat	blishmen od	t Fire Risk		
Is the fir Relaxation Hazard Division	the other for cured r	the recomm	ended Estat	blishmen od	t Fire Risk	Classifica	
Is the fir Relaxation Hazard Division	the other for cured r	the recomm	ended Estat	blishmen od	t Fire Risk	Classifica	Signature
Is the fir Relaxation Hazard Division	the other for cured r	the recomm	ended Estat	blishmen od	t Fire Risk	Classifica	Signature
Is the fir Relaxation Hazard Division	the other for cured r	the recomm	ended Estat	blishmen od	t Fire Risk	Classifica	Signature
agent) Is the fir Relaxation Hazard Division Limit (Kgs)	the other for cured r	the recomm	ended Estal	od To	t Fire Risk	Classifica	Signature
Is the fir Relaxation Hazard Division Limit (Kgs) Relaxation	the other for cured recover in accordance with the approved	the recomm	ended Estat	od To	t Fire Risk	Classifica f Safety Of	Signature ficer Date
Is the fir Relaxation Hazard Division Limit (Kgs) Relaxation	the other for cured recover in accordance with the approved	the recomm	ended Estal	od To	t Fire Risk	Classifica f Safety Of	Signature
Is the fir Relaxation Hazard Division Limit (Kgs) Relaxation Hazard Division	the other for cured recover in accordance with the approved	the recomm	ended Estal	od To	t Fire Risk	Classifica f Safety Of	Signature ficer Date
Is the fir Relaxation Hazard Division Limit (Kgs) Relaxation	the other for cured recover in accordance with the approved	the recomm	ended Estal	od To	t Fire Risk	Classifica f Safety Of	Signature ficer Date Signature



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.

Establish	ES	RME, WALTH		BEY		(If	lding No. grouped ldings. g	N547 with other ive detail	rooms or s)
Us e		ctive State -					PRO	POSED	
	Untra State and c	rsed (T) or versed (U) - type of Trave onstruction of ing. walls and	erse, f	Hazard Divisions	Compatiblity Groups	Man L (Note	imit M&N	Expl	osive Limit e ii) (Kgs)
Propell	lant Storehouse T E wal	arth. 13" : ls, sheet ered timbe	Brick zinc	1.3	С	М	5 NO		6000
lf this i	s to replace an existing	limit, please	state da	te present	limit approved.	2	5-7-68		
explan- atory notes ,	Factor influencing Explosives limit 1	Distance in Metres 2			of building		T or U	workers present M & N 5	For C.S.O. use 6
iii	Inside Perimeter Fence A. Nearest Explosives Storage Unit (a) traversed (b) untraversed	62 45			Liquid Stor		T	M3 NO M2 NO	
iv	B. Main Office	205	N509	Canteen			U		
iv	C. Main Engineering Workshop	255	G412	Carpente	rs Workshop	ò	υ	N16	
	D. Nearest Explosives Process Building (a) traversed and (b) untraversed	87 100	Paste		ng of Cordi		T ste U	M3 N2	
iv)	E. Give numbers of all occupied non-explosi buildings within the OQD and give details at 1 overlea		eca						
	Outside Perimeter Fence F. Nearest building (dwelling house, church, etc.)								
	G. Nearest road, railway, canal, river.	> 400		/					
Date!	16 February 1981	. Signature	13.	H. Newsn	an			. Head of	Establishmer

HD1-3c - 6000Kg,

Date 23-3-81 Chief Safety Officer NJunkes

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

Building No.	Use	Distand in metres		Workers present M & N	Remarks	Leave this colum	n for C.S.O.
	1.0	-	× ,4°				
			-				
			۰				<u> </u>
	-,-,-						
			V 				
ls the fire	s cover in accordance with th		stahl i shm en	t Fire Risk	Classifica	tion?	Yes
Relaxation	approved			-			
		P	eriod				ada kandhida yili ee ee dhaayaan ee an iyo dhaa
lazard		_				Signature	
		From -	To				
dazard Division Lisit (Kgs)		From -	To				

Relaxation Extended (See Note v).

Hazard	Peri	iod	Signature
Division	From	To	Signature
Limit (Kgs)			Chief Safety Officer Date

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 relevation

Establish	*	PERME, W ESSEX ENS	1BP	ABBEY		(If	lding No. grouped ldings.g	with other	r rooms or
Us e		ective State - ersed (T) or					PRO	POSEI	D
	Untra	eversed (U) = type of Travion or ing, walls an	erse, f d roof	Hazard Divisions	Compatiblity Groups	Man L (Note	imit M&N i)		losive Limit te ii) (Kgs)
ite Pas B) Pre & RDX	eving of Cord- T,	Earth. eet asbesto Froof		1.1	C and D	M5	N4	-	250
	s to replace an existing	limit, please	state da	te present	limit approved.		25-7-68		
explan- atory notes ,	Factor influencing Explosives limit 1	Distance in Metres 2	Numi	ber and use	of building		T or U	Workers present M & N 5	For C.S.O. use 6
111	Inside Perimeter Fence A. Nearest Explosives Storage Unit (a) traversed (b) untraversed	87 137			nt Storehou opellant St		T T	M5 NO M2 NO	ans legal
iv	B. Main Office	140	N509	Canteen			U		
iv	C. Main Engineering Workshop	265	G412	Carpente:	rs Workshop		U	N16	
	D. Nearest Explosives Process Building (a) traversed and (b) untraversed	52		Wet Mixi Paste	ng of Cordi	te	U	M10 N8	
iv)	E. Give numbers of all occupied non-explosi buildings within the OQD and give details at 1 overlea								
	Outside Perimeter Fence F. Nearest building (dwelling house, church, etc.)		Quint	on Hill	Farm				
	G. Nearest road, railway, canal, river.	340	A112) /					
	b Ectruary 1981 Explosive Limits (leave	. Signature blank for CSO		H. Nlwm	an	•••••	•••••	. Head of	Establishmen

H) 101 Cand 0 - 250 Hap

Date	23-3-81	Chief Safety Officer	N. Linkus
	overleaf for relaxations (wh		

Building No.	Use	Distance in metres	T or	Workers present M & N	Remarks	Leave this colu	mn for C.S.O.
		~ # # # # # # # # # # # # # # # # # # #					
			1				
				25 100	•		
			8" wa				
	er in accordance with the	recommended Estab			Classifica	ation?	Yes
Relaxation apor			lishmen		Classifica	ation?	Yes
Relaxation apor		recommended Estab	lishmen		Classifica	stion? Signature	Yes
Is the fire cov Relaxation appr Hazard Division Limit (Kgs)		Perjo	lishmen	t Fire Risk	Classifica	Signature	Yes
Relaxation apor Hazard Division Limit (Kgs)		Perjo From	lishmen	t Fire Risk		Signature	Yes
Relaxation apor Hazard Division Limit (Kgs)	nved	Perjo From	lishmen d To	t Fire Risk		Signature ficer Date	Yes
Relaxation appr dazard Division .init (Kgs)	nved	Perjo	lishmen d To	t Fire Risk		Signature	Yes

E. .NATORY 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.

Establish	ment - ROF Walt	•					(If	lding No. grouped ldings. g	N 549 with other ive detail	rooms or s)
Us e			tive State -					PRO	POSED	
b) Wet	extraction mixing of	Untrave State	sed (T) or ersed (U) - type of Trav nstruction o no. walls an	erse, f d roof	Hazard Divisions	Compatiblity Groups	Man L (Note	imit M&N		osive Limit e ii) (Kgs)
c) Fe	elting of aste		F,earth R/C,wood	roof	1.1.	Ð	M	BN6		300
	xing and ting of CCC		U. Brick		1.3.	C				550
f this i	s to replace an exi	sting 1	imit, please	state da	te present	limit approved.	-2!	5-7-68		
explan- atory notes,	Factor influencing Explosives limit	g	Distance in Metres	T		of building		T or U	Workers present M & N 5	For C.S.O. use
111	Inside Perimeter F A. Nearest Explos Storage Unit (a) traversed (b) untraverse	ives	96 128			d charge storeage ropellant	store	Ū	M5N0 M2N0	
iv	B. Main Office		190	N 562	Branch e	ffice		U "	M33N27	
iv	C. Main Engineeri Workshop	ng	3 50	G 408	Services	Werkshep		U	N20	
	D. Nearest Explos Process Buildi (a) traversed	ng and	48 22	truc	k drying	aration for er settling		T	M4N2 M3N0	
iv)	(b) untravers E. Give numbers o occupied non-e buildings with the OQD and gi details at 1 o	f all xplosiv in		N 509						
- 11 -	Outside Perimeter F. Nearest buildin (dwelling house church, etc.)	Fence g	350	Quint	on Hill	Farm				
	G. Nearest road, railway, canal river.	,	300 350	A 112 M 25						

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	NIMRIES.
---	------	---------	--------------	---------	----------

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

Building No.	Use	Distance in metres	T or	Workers present M & N	Remarks	Leave this column for C.S.O.
N 509	Canteen	210	υ		98"	
7						
-						
		3		18	٠	

2.	Brief reference to any	factors influencing	the relaxation such a	is 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.
---	------------	-----------	-----------	------	-----	-----	-----	-----	----------	----	-------	-----	---	------

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

Yes

4. Relaxation approved

Hazard	Per	iod	Ç
Division	From -	T _O	Signature
Licit (Kgs)			
			Chief Safety Officer Date

Hazard	Per	od	
Division	From	To	Signature
Limit (Kgs)	 tenlue		28-1-81
			Chief Safety Officer
			Date

EXPLANATORY NOTES -

MI

- 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

		tham Abbey				(If			rooms or	
lse	Trave	ctive State - rsed (T) or versed (U) -		Hazard	Compatiblity	Man I	PRO	POSE	osive Limit	
· Turning in the second control and	State	type of Trave construction of ling. walls and	rse,			(Note 1)			(Note ii) (Kgs)	
	acture ash	T. Sheet estos clad oof. Inte iding wall ck.	walls rnal	1.3	С	М	8 N6	(U	950 Init risk 350)	
f this i	s to replace an existing	limit, please	state da	te present	limit approved.	17	.3.81			
xplan- itory iotes ,	Factor influencing Explosives limit	Distance in Metres 2	Numl	ber and use	of building		T or U	workers present M & N 5	For C.S.O. use	
111	Inside Perimeter Fence A. Nearest Explosives Storage Unit (a) traversed (b) untraversed	52	N553	Curing o	of CDB Char	ges	T y into	M4 NO	i hadvi	
iv	B. Main Office	225	P754	Fire Sta	ation	nerce	mu U tolia	M14N10	Ed <u>01</u> 7,14	
iv	C. Main Engineering Workshop	>400				15	eid B	5		
S	D. Nearest Explosives Process Building (a) traversed and (b) untraversed	40	N554	Charge E	Breakdown		T	M4 N3		
îv)	E. Give numbers of all occupied non-explosi buildings within the OQD and give details at 1 overlea	f	-		·					
	Outside Perimeter Fence F. Nearest building (dwelling house, church, etc.)	135	Quint	on Hill	Farm					
	G. Nearest road, railway, canal, river.	105	A112					*		
Date	22-7-82	. Signature	. AT	Bels	-	pp.		. Head of	Establi shme	

PROPOSED LIMITS APPROVED

Date	22-12-82	Chief Safety Officer	NJm Rey.
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Building No.	Use	Distance in metres	T or	Workers present M & N	Remarks	Leave this column for C.	S.O.
				23	L. Helde		
				leg			
n Principal				factoria	Lostes Pool. VIII.	Superiogen is 120 predest	
	1.0.W	-				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
West bay Centre ba East bay	ay - Ammonium perchlorate - Medium and small mix at a time - 250 kg	e ovens - xes, sepa H.D 1.3	350 I	by 9" R/	'C wall -		
Relaxation a	approved						
Hazard Division		Perio	d			Signature	
DIVISION	Fr	om - i.	_				
			То	in the	the productive between the contract of the con		Na de la constanta de la const
. 1			Го	Chief	Safety Off	icer Date	
(Kgs)	tended (See Note v).		Го	Chief			
Relaxation Ex Hazard		Perio		Chief			

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

Establishme	ent -		ESSEX	WALTH EN9 1BP	AM ABBEY		(If	lding No. grouped ldings. g	with other	er rooms or ls)
lse		Traver	tive State - sed (T) or					PRO	POSE	D
		State and con	ersed (U) - type of Travenstruction of no. walls and	erse, f	Hazard Divisions	Compatiblity Groups	Man Limit M&N (Note i)			olosive Limit ote ii) (Kgs)
Curing charges trials	of CDB and storage	9"]	Earth Brick wall te roof	ls	1.3	C	М3	МО		340
f this is	to replace an exis	ting li	imit, please	state da	te present	limit approved.	25-	-7-68		
xplan- itory otes,	Factor influencing Explosives limit		Distance in Metres	Numb		of building		TorU	Workers present M & N	For C.S.O.
	nside Perimeter Fe . Nearest Explosi		2 26			y use maga:	zine	U U	5	6
	Storage Unit (a) traversed (b) untraversed 127) to North age in Tund Room	T	M10N8		
iv E	Main Office		55	N562 P1 Offices & Labs				Ū	M33N27	
	. Main Engineerir Workshop		205	P754	Fire St	ation		υ	M14N10)
	Nearest Explosi Process Buildir (a) traversed	ig	55	N556	Experim	ental Prope	llant	T	M4 N2	
iv) E	(b) untraverse Give numbers of	.d	52	N569	Charge	Braakdown &	C	U	M6 N3	
10)	occupied non-ex buildings within the OQD and give details at 1 ov	plosiv n	*******							
1	utside Perimeter . Nearest building (dwelling house church, etc.)	Fence	220	Quint	on Hill	Farm				
G	 Nearest road, railway, canal, river. 		155	A112) ,					
Date/	Ebruary 19	8/	Signature	D.	H. News	uan			. Head of	Establishme
Inrelaxed E	xplosive Limits (1	eave b	ank for CSO!	s use)						

HO1.3C - 340 Rg.

Da	nte(?)	3/81	. Chief Safety Officer	NJM Res.
0	1			

1. Details of Buildings shown at E overleaf. (A sketch of the area should be attached) Distance Tor Workers Building. Use Leave this column for C.S.O. Remarks present in No. M & N U metres 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 42" brick wall. Is the fire cover in accordance with the recommended Establishment Fire Risk Classification? Yes 4. Relaxation approved Period Hazard Signature Division To From Limit (Kas) Chief Safety Officer Date Relaxation Extended (See Note v). Period Hazard Signature Division From To Limit (K_{gs}) 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

Establish	uesting an extension to the ment - Royal Ordnance	, Waltham	Abbey			(If	grouped	N 554 With other ive detail	rooms or
Js e		ctive State -					PRO	POSED	
	Untra	versed (U) - type of Trave instruction of no. walls and	rse,	Hazard Divisions	Compatiblity Groups	Man L (Note	imit M&N i)		osive Limit e ii) (Kgs)
filling & brea	g, charge cure 9"	v T, earth brick, slat ept west e t asbestos claddin	e roof xtensio		С	М6			1000
f this i	s to replace an existing l	imit, please	state dat	te present	limit approved.	17-	3-81		
explan- atory notes ,	Factor influencing Explosives limit 1	Distance in Metres 2	Numb	per and use	of building		T or U	workers present M & N 5	For C.S.O. use 6
111	Inside Perimeter Fence A. Nearest Explosives Storage Unit (a) traversed (b) untraversed	67	Priche of E		narges.	no qu	T	M4N0	307, 33,000
iv	B. Main Office	180	P 754	Fire St	ation		U	M14N10	
iv	C. Main Engineering Workshop								
	D. Nearest Explosives Process Building (a) traversed and (b) untraversed	40 3	N 550		ite Propell acture.	ant.			
iv)	E. Give numbers of all occupied non-explosive buildings within the OQD and give details at 1 overleases.								
	Outside Perimeter Fence F. Nearest building (dwelling house, church, etc.)	150	Quint	on Hill	Farm				
	G. Nearest road, railway, canal, river.	65	A 112						
Date	27-3-85	Signature		97130	45		0.0.	. Head of	Establishmen

PROPOSED LIMITS APPROVED

Date	23 -7 - 85	Chief Safety Officer	NImReis.
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1. Details of Buildings shown at E overleaf. (A sketch of the area should be attached) Distance Tor Workers Building Leave this column for C.S.O. Use present Remarks in No. M & N U metres 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. Is the fire cover in accordance with the recommended Establishment Fire Risk Classification? Yes 4. Relaxation approved Period Hazard Signature Division To From Limit (Kgs) Chief Safety Officer Date Relaxation Extended (See Note v). Period Hazard Signature Division 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.
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v. The detail of buildings and distances shown below should be checked to ensure no change has taken place before

	uesting an extension to the ment - Royal Ordnance	, Waltham	Abbey			(If		with oth	with N 545 550 Her rooms or Hils)	
Use Protective State - Traversed (T) or Untraversed (U) - State type of Trave and construction of building, valls and			rse, Lroof	Hazard Divisions	Compatiblity Groups	Man Li (Note	mit M&N		Explosive Limit (Note ii) (Kgs)	
fillin & brea	g, charge cure 9"	pt west extension asbestos cladding.			С	M6N4 17-3-81			1000	
	s to replace an existing l	imit, please	state da	te present	limit approved.	17	3-81			
explan- atory notes,	Factor influencing Explosives limit	Distance in Metres 2	Number and use of building				Tor U	present M & N 5	1	
111	Inside Perimeter Fence A. Nearest Explosives Storage Unit (a) traversed (b) untraversed	67	N 55.				T	M4N0	:	
iv	B. Main Office 180 P 754 Fire Station					U	ми	10		
īv	C. Main Engineering Workshop									
	D. Nearest Explosives Process Building (a) traversed and (b) untraversed	40 5	N 55		ite Propell acture.	ant				
iv)	E. Give numbers of all occupied non-explosi buildings within the OQD and give details at 1 overlea	f								
	Outside Perimeter Fence F. Nearest building (dwelling house, church, etc.)	150	Quint	on Hill	Farm		0			
	G. Nearest road, railway, canal, river.	65	A 112							
Date	27-3-85	. Signature	-	ATBO	45	·····}	?p	. Head	of Establishmer	
Unrelaxe	d Explosive Limits (leave	blank for CSO	s use)							

Building No.			T or	Workers present H & N	Remarks	Leave this column for C.S.O.			
		4.0		* -					
					-				
				• • •	,	The state of the s			
			Du.			.i.o.esis e.it ydiga.ef styr			
				• • •		*			
	to any factors influencing itional potential hazard of			special p	rocedures o	r vritten instructions that			
N 545,550, 5	54 are usee by one S	ection, mar							
Is the fire cove	r in accordance with the re								
Is the fire cove	r in accordance with the re	commended Esta	hlishment						
Is the fire cove Relaxation aporo	r in accordance with the re	conmended Esta	hlishment						
Is the fire cove Relaxation apono Hazard Division Ligit	r in accordance with the re	conmended Esta	hlishment od			tion? Yes			
Is the fire cove Relexation apono Hazard Division Limit	r in accordance with the re	conmended Esta	hlishment od	Fire Risk	Classifica	tion? Yes Signature			
Is the fire cove Relaxation aporo Hazard Division Ligit	r in accordance with the re	conmended Esta	hlishment od	Fire Risk		tion? Yes Signature			
	r in accordance with the re	commended Esta Peri	hlishment od To	Fire Risk	Classifica	tion? Yes Signature			
Is the fire cove Relaxation apono Hazard Division Limit (Kgs) Relaxation Extendad	r in accordance with the re	Peri	hlishment od To	Fire Risk	Classifica	tion? Yes Signature			
Is the fire cove Relaxation aporo Hazard Division Ligit (Kgs)	r in accordance with the re	commended Esta Peri	hlishment od To	Fire Risk	Classifica	tion? Yes Signature ficer Date			
Is the fire cove Relaxation apono Hazard Division Limit (Kgs) Relaxation Extendad	r in accordance with the re	Peri	hlishment od To	Fire Risk	Classifica	tion? Yes Signature ficer Date			

. . .

EXPLANATORY NOTES -

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v. The detail of buildings and distances shown below should be checked to ensure no change has taken place before

	Royal Ordnance,		Abbey	-3	_	(If	lding No. grouped ldings. g	& N 5	with N 545 50 r rooms or ls)	
Use Protective State - Traversed (I) or Untraversed (U) - State type of Traver and construction of building, walls and							PRO imit M&N i)		Explosive Limit (Note ii) (Kgs)	
fillina & breal	site Propellant Low g, charge cure 9" b	T, earth rick, slat pt west e	• roof	· · · · · · · · · · · · · · · · · · ·	С	М6			1000	
f this i	s to replace an existing li	mit, please	state da	te present	limit approved.	17-	3-81			
explan- atory notes,	Factor influencing Explosives limit	Distance in Metres 2	e Number and use of building				Tor U pres			
111	Inside Perimeter Fence A. Nearest Explosives Storage Unit (a) traversed (b) untraversed	67	N 55.	3 Curing	of CDB marges.		Ţ	м4по		
iv	B. Main Office	180	P 754 Fire Station			U	M14N1	0		
īv	C. Main Engineering Workshoo									
	D. Nearest Explosives Process Building (a) traversed and (b) untraversed	40 5	N 55		ite Propell acture.	ant				
īv)	E. Give numbers of all occupied non-explosiv buildings within the OQD and give details at 1 overleaf						. 1			
	Outside Perimeter Fence F. Nearest building (dwelling house, church, etc.)	150	Quint	on Hill	Farm					
	G. Nearest road, railway, canal, river.	65	A 112	4						
Date	27-3-55	Signature		1713-s	45	·····}	? _j ?,	. Head of	Establishmen	
Unrel axe	d Explosive Limits (leave b	lank for CSU	's use)							
Date	Ch	lef Safety O	fficer							
								•		

1. Details of Buildings shown at E overleaf. (A sketch of the area should be attached) Tor Workers Distance Building Use Leave this column for C.S.O. present Remarks in No. U H & N metres 220 2. Brief reference to any factors influencing the relaxation such as special procedures or written instructions that counter the additional patential hazard of the building:-N 545,550, 554 are usee by one Section. Man limit M8N6 applies to the three buildings. Is the fire cover in accordance with the recommended Establishment Fire Risk Classification? Yes 4. Relaxation approved-Period Hazard Signature Division From To Limit (Kgs) Chief Safety Officer Date Relaxation Extended (See Note v). Period Hazard Signature Division From To Limit (K_{0s}) Chief Safety Officer Date

EXPLANATORY NOTES -

- i. Both the maximum permitted Man Limit (M) and the number normally present (N) are required.
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v. The detail of buildings and distances shown below should be checked to ensure no change has taken place before

stablishm	nesting an extension to the Royal Ordnance,	Waltham	Abbey			(lf	lding No. grouped ldings.g	with other	with N 545 50 er rooms or ils)
Jse	Travers Untrave State t	rive State - sed (T) or ersed (U) - type of Trave estruction of to, walls and	rse, Lroof	Hazard Divisions	Compatiblity Groups	Man L (Note	imit M&N		D plosive Linit pte ii) (Kgs)
filling & breal	g, charge cure 9" b	T, earth rick, slat pt west e asbestos claddin	e roof xtensio		С	м6			1000
	s to replace an existing li	mit, please	state da	te present	limit approved.	17-	3-81		8
Explan- atory notes ,	Factor influencing Explosives limit 1	Distance in Metres 2	Numi	per and use	of building		T or U	present M & N	For C.S.O. use
111	Inside Perimeter Fence A. Nearest Explosives Storage Unit (a) traversed (b) untraversed	67	N 55.	Curing cl	of CDB marges.		т	м4110	
iv	B. Main Office	180	P 754	Fire St	ation		U	M14N1	0
îv	C. Main Engineering Workshoo D. Nearest Explosives								
	Process Building (a) traversed and (b) untraversed	40 3	N 550		ite Propell acture.	ant			
îv)	E. Give numbers of all occupied non-explosiv buildings within the OQD and give details at 1 overleaf								
	Outside Perimeter Fence F. Nearest building (dwelling house, church, etc.)	150	Quint	on Hill	Farm				
	G. Nearest road, railway, canal, river.	65	A 112						
Date	27-3-35	Signature		A713-0	45	······}	<i>19</i>	. Head of	f Establishmen
Unrelaxed	d Explosive Limits (leave b	lank for CSO	s use)						
1	eaf for relaxations (where			• • • • • • • • • •	•••••••	•••••	• • • • • • • • •		

1. Details of Buildings shown at E overleaf. (A sketch of the area should be attached) Tor Workers Distance Building Use Leave this column for C.S.O. Remarks present in No. H&N metres 2. Brief reference to any factors influencing the relaxation such as special procedures or written instructions that counter the additional patential hazard of the building:-N 545,550, 554 are usee by one Section. Man limit M8N6 applies to the three buildings. Is the fire cover in accordance with the recommended Establishment Fire Risk Classification? Yes 4. Relaxation approved Period Hazard Signature Division To From Lisit (Kqs) Chief Safety Officer Date Relaxation Extended (See Note v). Period Hazard Signature Division From To Livit (K_{0s}) Chief Safety Officer Date

EXPLANATORY NOTES -

- i. Both the maximum permitted Man Limit (H) and the number normally present (N) are required.
- ii. State quantity of explosive in each Hazard Division.
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- v. The detail of buildings and distances shown below should be checked to ensure no change has taken place before

	desting an extension to tr			xisting rei	axation,	~		1 661	SAN FAC
	Royal Ordnance	, Waltham	Abbey		E)	(lf	grouped		oith N 545 rooms or s)
Use		tive State -						POSEC	
	Traver	sed (T) or					PKU	PUSEL)
	Untrav	ersed (U) -		Hazard	Compatiblity	Man Li	mit M&N	Expl	osive Limit
	State	type of Trave	erse.	Divisions	Groups	(Note	i)		e ii) (Kgs)
	and co	nstruction of					• •	1	0 117 (ngs)
	buildi	no, walls and	roof			 -			
Compos	site Propellant Lo	T, earth						1	
_	_	orick, slat		1_3	C	м61	NP	1	1000
& breal		ept west e					···•		,000
	burning test. Shee	-		1					
burring	burning test. Diffee			1		1			
***************************************		claddin	ક•	L	<u> </u>	L.,			√ ·
If this i	s to replace an existing l	imit, please	state da	te present	limit approved.	17-	3-81		
Explan-	r	T	I					Morkers	1
atory	Factor influencing	Distance	Num	per and use	of building		T or U	present	For C.S.O.
notes,	Explosives limit	in Metres			,			M&N	use
110 (03 ,	1	2		3			4 .	5	6
	<u> </u>	-					т	<u> </u>	
iii	Inside Perimeter Fence	67	N 55	3 Curing	of CDB				
	A. Nearest Explosives	1 . 1 . 1 . 1	A	_	harges.		T	MANO	;
	Storage Unit				80	- 1	_		
	(a) traversed (b) untraversed			Væ		. 1			
		180	D 754	Fire St	o ti on		U	137 401 40	
iv	B. Main Office	160	F 154	TITE DO	acton			м14м10	<u></u>
iv	C. Main Engineering								
	Workshop								
	D. Nearest Explosives								
	Process Building	40	N 55	O Compos	ite Propell	ant			
	(a) traversed and				acture.				
	(b) untraversed								
iv)	E. Give numbers of all								
	occupied non-explosi	/}							
	buildings within								İ
	the OQD and give details at 1 overlea	F					, ,		
	Outside Perimeter Fence								
	F. Nearest building	150	Quint	on Hill	Farm				
	(dwelling house,	1 .)0	during	OH HILL	L CLLILL				
	church, etc.)								,
	G. Nearest road,	(5	1 440						
	railway, canal,	65	A 112						
	river.								
			l	AAN a	12				1,
Date	27-3-55	. Signature		11100	W)	M	?g2	. Head of	Establi shaent
Unrelaxed	d Explosive Limits (leave	blank for CSO	s use)						
1									
Date	Ci	tof Cofet. O.	ffi can						
Date		ilei saiety o	incer		••••••	•••••	••••••		
See over1	eaf for relaxations (where	e appropriate)						

Building No.	Use	Distance in metres	T or	Workers present M & N	Remarks	Leave this co	lumn for C.S.O.
		· ·			- 1		
							i a ber e k , id .no .no
	** . ** .* .			•			· ·
N 545,550,	554 are usee by one	of the building:	a limit	t M8N6 a	oplies to	the three	buildings.
Is the fire cov	554 are usee by one	e Section. Man					buildings.
Is the fire cov	554 are usee by one	e Section. Man					
Is the fire cov Relaxation apor	554 are usee by one	e Section. Man	blishment				
Is the fire cov Relaxation apor Hazard Division	554 are usee by one	e Section. Man	hlishmen	t Fire Risk		tion? Signature	
Relaxation apor Hazard Division Limit (Kgs)	554 are usee by one	e Section. Man	hlishmen	t Fire Risk	Classifica	tion? Signature	
Is the fire cov Relexation apor Hazard Division Limit (Kgs)	554 are usee by one er in accordance with the oved	e Section. Man	blishmen od To	t Fire Risk	Classifica	tion? Signature	

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

	/altham Abbe	у			(If	grouped	with ot	her rooms or
Trav	versed (T) or vaversed (U) -		Hazard Divisions	Compatiblity Groups		imit M&N	E	E D xplosive Limit Note ii) (Kgs)
ental process- T, colloidal re	Earth, doe each eaves.	es not	1.1	C & D	M4	N2		50
to replace an existing	limit, please	state da	te present	limit approved.	12	2.12.79	-	
Factor influencing Explosives limit 1	Distance in Metres 2	Num	ber and use	of building		T or U	present M & N	
nside Perimeter Fence Nearest Explosives	68 170	N532				T	М3	
	138	N573	Magazir	ne		U	-	
Main Office	90	N562	P1 Offi	.ces		U	20	
. Main Engineering Workshop	415	G408	BWD Wor	rkshop	-	U	16	
 Nearest Explosives Process Building 	45	N557	NG ext	raction		T	4	
(a) traversed and	35	N569	Charge	examination	1	U	3	
 Give numbers of all occupied non-explos buildings within 	ive							
		Quint	on Hill	Farm				
. Nearest road, railway, canal, river.	225	A112	Sewardst	one Rd				
	Prot Trav Untr Stat and buil ental process—T, colloidal ants to replace an existing Factor influencing Explosives limit 1 nside Perimeter Fence Nearest Explosives Storage Unit (a) traversed (b) untraversed Main Office Main Engineering Workshop Nearest Explosives Process Building (a) traversed and (b) untraversed Give numbers of all occupied non-explos buildings within the OQD and give details at 1 overle utside Perimeter Fence Nearest building (dwelling house, church, etc.) Nearest road, railway, canal,	Protective State - Traversed (T) or Untraversed (U) - State type of Travand construction or building, walls and ental process colloidal ants T, Earth, does reach eaves. Asbestos clace To replace an existing limit, please To replace an existing limit, please To reach eaves. Asbestos clace To reach eaves. Asbestos	Protective State - Traversed (T) or Untraversed (U) - State type of Traverse, and construction of building, walls and roof T, Earth, does not reach eaves. Asbestos clad. To replace an existing limit, please state da Tactor influencing Explosives limit 1 1 1 1 1 1 1 1 1 1 1 1 1	Protective State - Traversed (T) or Untraversed (U) - State type of Traverse, and construction of building, walls and roof ental process- colloidal ants T, Earth, does not reach eaves. Asbestos clad. To replace an existing limit, please state date present Factor influencing Explosives limit 1	Protective State - Traversed (T) or Untraversed (U) - State type of Iraverse, and construction of building, walls and roof ental process T, Earth, does not reach eaves. Asbestos clad. To replace an existing limit, please state date present limit approved. To replace an existing limit, please state date present limit approved. To replace an existing limit, please state date present limit approved. To replace an existing limit, please state date present limit approved. To replace an existing limit, please state date present limit approved. To replace an existing limit, please state date present limit approved. To replace an existing limit, please state date present limit approved. To replace an existing limit, please state date present limit approved. To replace an existing limit, please state date present limit approved. To replace an existing limit, please state date present limit approved. To replace an existing limit, please state date present limit approved. To replace an existing limit, please state date present limit approved. To replace an existing limit, please state date present limit approved. To replace an existing limit, please state date present limit approved. To replace an existing limit, please state date present limit approved. To replace an existing limit, please state date present limit approved. To replace an existing limit, please state date present limit approved. To replace an existing limit, please state date present limit approved. To replace an existing limit, please state date present limit approved. To replace an existing limit, please state date present limit approved. To replace an existing limit, please state date present limit approved. To replace an existing limit, please state date present limit approved. To replace an existing limit, please state date present limit approved. To replace an existing limit, please state date present limit approved. To replace an existing limit, please state date present limit approved. To replace an existing limit, please	ROF Waltham Abbey Protective State -	ROF Waltham Abbey Rof Waltham Abbey	ROF Waltham Abbey Protective State -

PROPOSED LIMITS APPROVED

Date	18-1-85	Chief Safety Officer	NIm Rees
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Building No.	Use	Distance in metres	T or	Workers present M & N	Remarks	Leave this colu	nn for C.S.O.
		~ ₁₈ £					
	e to any factors influenc ditional potential hazard			s special p	procedures o	r ⊔ritten instruc	tions that
propellants	be used for experi 1.1 materials (d short time before b 1.1 being retained i	dry NC, picrit becoming 1.3 i	ce, KDX	() WILL (oniy be p	resent for a	
ls the fire cov	er in accordance with the	recommended Estat	olishmen	t Fire Risk	: Classifica	tion?	YES
Relaxation apor	nved						
azard		Perjo	o d			Signature	nd film a Suid-Company to supply and supply
ivision		From	To			orginature	
isit Kgs)							
				Chie	f Safety Of	Date	
elaxation Exten	ded (See Note v).	radionis anno anno anno anno anno anno anno ann					
azard livision		Perio	od -To	411 (1)	tzasa	Signature	
					**************************************	-	

Date

EXPLANATORY NOTES -

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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

Establish	ROF Walths						(If	lding No. grouped ldings. g	with othe	r rooms or
Us e	1	Traverse	ve State -						POSE	
	S	State ty and cons building	rsed (U) - rpe of Trave struction of a walls and	rse, I roof	Hazard Divisions	Compatiblity Groups	Man L (Note	imit M&N i)		losive Limit te ii) (Kgs)
	xtraction tration at		rth stos cla od frame	dding	1.1.	D	М4]	N3	-	150
f this i	s to replace an exist	ting lim	it. please	state da	te present	limit approved		25-7-68		
explan- atory notes ,	Factor influencing Explosives limit		Distance in Metres			of building		TorU	Workers present M & N	For C.S.O.
	1		2		3			4	5	6
111	Inside Perimeter Fen A. Nearest Explosiv Storage Unit (a) traversed (b) untraversed		200 45	N 547 N 545	Compos	ed Charge s site propel ocess store		U	M5NO M4NO	
iv	B. Main Office		127	N 56	2 Branch	offices				
î۷	C. Main Engineering Workshop	g	375	G 408	Service	es Werkshep		U	N20	
	D. Nearest Explosiv Process Building (a) traversed a	g and	45	N 556	-th	mental essing		Т	M4N2	
iv)	E. Give numbers of occupied non-exp buildings within the OQD and give details at 1 ove	all plosive n e erleaf		N 509)					
	Outside Perimeter F F. Nearest building (dwelling house, church, etc.)	Fence	262	Quint	on Hill	Farm				
	G. Nearest road, railway, canal, river.		220 312	A 112 M 25						

PROPOSED LIMITS APPROVED

Date	18-1-85	Chief Safety	Officer	NImRees.
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1.	Details of	Buildings	shown	at E	overleaf.	(A	sketch	of	the	area	should	be	attached)
----	------------	-----------	-------	------	-----------	----	--------	----	-----	------	--------	----	-----------

Building No.	Use	Distance in metres	T or	Workers present M & N	Remarks	Leave this column for C.S.O.
N 509	Staff Canteen	200	υ			
			9			
	. 242					

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.

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

Yes

4. Relaxation approved

Hazard	Per	iod	S
Division	From	То	Signature
Limit (Kgs)		11	
			Chief Safety Officer Date

Relaxation Extended (See Note v).

Hazard	Perio	d	C		
Division	From	То	Signature		
Limit (Kgs)	Ward Car		55-1-5		
			Chief Safety Officer		
			Date		

EXPLANATORY NOTES -

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Jse	_		ive State -				bui	dinas a	ive detail	rooms or s)
D		Untrave	ed (T) or rsed (U) - ype of Trave struction of g. walls and	erse, f	Hazard Divisions	Compatiblity Groups		PRO	P O S E D	
wfw	ant Labora- & Offices	υ	9" Bric ķ 1 & felt	:	1.3	С	М33	N27	1. (s	6 ee 2 over
f this is	to replace an exis	ting li	mit, please	state dat	te present	limit approved.	2	5-7-68		
explan- atory notes ,	Factor influencing Explosives limit 1		Distance in Metres 2			of building		T or U	Workers present M & N 5	For C.S.O. use 6
	Inside Perimeter Fe A. Nearest Explosi Storage Unit (a) traversed (b) untraversed	ves	5 5 6 2			ge Curing nt Locker		T U	M4 NO M2 NO	
iv	B. Main Office		115	P754 I	Fire Stat	tion		U	M14N10	
iv	C. Main Engineerin Workshop	g	400							
	D. Nearest Explosi Process Buildin (a) traversed (b) untraverse	g a n d	25		Propellar		xper-	U	M4 N2	
iv) I	E. Give numbers of occupied non-ex buildings within the OQD and give details at 1 ov	all plosive n e								
	Outside Perimeter F. Nearest building (dwelling house, church, etc.)	Fence	235	Quinto	on Hill I	farm				
	G. Nearest road, railway, canal, river.		105	A112						
Date 16	February 19	81	Signature	10.F	1 News	an			. Head of	Establishm en t

HO 1.30 - 1.6 Kep Distributed as at 2, mortered

Building No.		Use	Distance in metres	T or	Workers present M & N	Remarks	Leave this column for C.S.	
				É				
(=					ije i		- 1111	
		, m _e ,						-
a) Labo	ratory 500, nce room 10 8 - sampl	g OOg e receipt 1k	MINZ MINZ MINZ MINZ MINZ			2		
Is the fir Relaxation	entanderiksedreid aus autreum der der Greifenge Auf	ordance with the	e recommended Est	ahlishmen	t Fire Risk	: Classifica	tion?	Yes
			0	J				
azard ivision			From	To			Signature	
isit Kgs)					Chie	f Safety Of	ficer 	
0-1	Extended (See 1	N - L \						
	xtended (see i	Note V).	Per	iod				
lazard Division			From	To			Signature	
imit Kgs)					Chie	f Safety Of	ficer	

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Establish	ROF Waltham Ab						(If	lding No. grouped ldings. g	with oth	er rooms or	
Js e	1	ravers	ive State - sed (T) or ersed (U) -		Hazard	Compatiblity	Man L	PROF Man Limit M&N		D plosive Limit	
	S	State tand con	type of Traverse, instruction of no, walls and roof		Divisions	Groups	(Note	1)		(Note ii) (Kgs)	
	mental process- colloidal lant		Brick ed and sla	ate	1.1 1.3	_ C & D _	M4	N2		ay 1 5kg ay 3 2kg	
lf this i	s to replace an exist	ing li	mit, please	state da	te present	limit approved.	20	12-79	and the same of th		
explan- atory notes ,	Factor influencing Explosives limit		Distance in Metres	T		of building		T or U	Workers present M & N	use	
iii	Inside Perimeter Fen		2	NSS	5 CHOING O	ECTRCHARLE	-5	4	5	6	
111	A. Nearest Explosiv		87	P703	Cordite	FCDBCHARGE HAGE TRIALS store	PRS	Т	M4 N3		
	Storage Unit (a) traversed (b) untraversed	-	150	N573	Magazin			U	N O		
iv	B. Main Office		2527	N563	Office	and lab		U	10		
iv	C. Main Engineering Workshop		510	G408	BWD Wor	kshop		U	-		
	D. Nearest Explosiv		25	N572	Experim	ental proce	essino	T	M6 N4		
	Process Building (a) traversed a (b) untraversed	and	32	N569	Charge	examination	1	U	M3		
îv)	E. Give numbers of occupied non-exp buildings within the OQD and give details at 1 ove	all losive		N563							
	Outside Perimeter F F. Nearest building (dwelling house, church, etc.)	ence	275	Quint	on Hill	Farm					
	G. Nearest road, railway, canal, river.		156	A112							
Date	16-4-84		Signature			ATBUS		0.0	H- 1	f Establishmen	

PROPOSED LIMITS APPROVED

Da	e 23-7-85	Chief	Safety	Officer	NImkees.
1.				-	

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

Building No.	Use	Distance in metres	T or	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.

	+ + 2	7m ——			
Bay 1	Bay 2	Bay 3	15m	N563	

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

4. Relaxation approved

Hazard	Per	iod	Signature		
Hazard Division	From -	То			
Limit (Kgs)					
			Chief Safety Officer		
	un.		Date		

Relaxation Extended (See Note v).

Hazard	W. Perio	od	Signature
Division	From	To	Signature
Limit (Kgs)	, I wishing		23-1-6
			Chief Safety Officer
		9	Date

EXPLANATORY NOTES -

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Establish	ment -		PERME, WA		ABBEY		(If	lding No. grouped	N569 with other live detail	rooms or	
Us e		land to the second	ive State -					morrow reterminations	POSEC		
	Untrav State and co buildi			rsed (T) or versed (U) - type of Traverse, onstruction of ing. walls and roof		Compatiblity Groups		Man Limit M&N (Note i)		Explosive Limit (Note ii) (Kgs)	
	arge breakdown ray examina-		" Brick, e roof		1.3	С	M8	N5		850	
f this i	s to replace an exis	sting li	mit, please	state da	te present	limit approved	. 25	-7-68			
explan- atory notes,	Factor influencing Explosives limit		Distance in Metres 2			of building		T or U	Workers present M & N 5	For C.S.O. use 6	
iii	Inside Perimeter Fe A. Nearest Explosi Storage Unit (a) traversed (b) untraversed	ves	12 52	N570 Heat Test of propellants N553 CDB Curing				U T	M2NO M3NO	302 FB.	
iv	B. Main Office		55	N562 P1 Offices and Labs				U	M33N27		
iv	C. Main Engineerin Workshop	ng	195	P754	Fire Sta	tion		Ū	M14N10		
	D. Nearest Explosi Process Buildir (a) traversed	19	32		Processi	ental Prope ng ditto	Llant	U	M4N2 M4N2		
iv)	(b) untraverse E. Give numbers of occupied non-ex buildings withi the OQD and giv details at 1 ov	fall xplosive in ve	100								
	Outside Perimeter F. Nearest building (dwelling house church, etc.)	Fence	280	Quint	on Hill	Farm					
	G. Nearest road, railway, canal river.		200	A112	2 /						
Date	6 February 19	//	Signature	10	H. News	My.			. Head of	Establishme	
Inrel axed	Explosive Limits (eave bl	ank for CSO!	s use)							
					TITAL CO	nen 50Kep	in le	& Creake	down confi	Strent.	

NImRees. .. Chief Safety Officer See overleaf for relaxations (where appropriate)

Grief reference to any factors influencing the relaxation such as special procedures or written instructions that counter the widditional potential hazard of the building: CDB Charge breakdown at eastern end, separated from X-ray by 9" wall, to eave height limit 50kg. X-ray facility normally occupied during working day (3.personnel) Is the fire cover in accordance with the recommended Establishment Fire Risk Classification? Period From To Chief Safety Officer Oate Relaxation Extended (See Note v). Hazard Jivision Period From To Chief Safety Officer Oate Chief Safety Officer Chief Safety Officer Chief Safety Officer	Building No.	Use	Distance in metres	T or	Workers present M & N	Remarks	Leave this col	umn for C.S.O
CDB Charge breakdown at eastern end, seperated from X-ray by 9" wall, to eave height limit 50kg. X-ray facility notmally occupied during working day (3 personnel) It the fire cover in accordance with the recommended Establishment Fire Risk Classification? Period								
CDB Charge breakdown at eastern end, seperated from X-ray by 9" wall, to eave height limit 50kg. X-ray facility notmally occupied during working day (3 personnel) Is the fire cover in accordance with the recommended Establishment Fire Risk Classification? Relexation approved Period Signature From To Chief Safety Officer Date Celaxation Extended (See Note v). Relexation Extended (See Note v). Relaxation Extended (See Note v). Relaxation Extended (See Note v).								
CDB Charge breakdown at eastern end, seperated from X-ray by 9" wall, to eave height limit 50kg. X-ray facility notmally occupied during working day (3 personnel) Is the fire cover in accordance with the recommended Establishment Fire Risk Classification? Relaxation approved Period From To Chief Safety Officer Date Cazard Division From To Signature				9			- 200	
CDB Charge breakdown at eastern end, seperated from X-ray by 9" wall, to eave height limit 50kg. X-ray facility notmally occupied during working day (3, personnel) Is the fire cover in accordance with the recommended Establishment Fire Risk Classification? Relaxation approved Period From To Signature Chief Safety Officer Date Relaxation Extended (See Note v). Period From To Signature Period Signature	Brief referenc	e to any factors influenci	ing the relaxation	on such a	s special p	procedures o	r written instru	ctions that
	Is the fire cov	er in accordance with the	recommended Esta	nhlishm en	t Fire Risk		ation?	Yes.
Signature From To Chief Safety Officer Date Period Signature Signature Signature Signature Signature To Chief Safety Officer Date Signature From To	Relaxation appr	nved					de systematica de materiario esta din sin accionen des gra sulta de comunicaci	
Chief Safety Officer Date Relaxation Extended (See Note v). Period From To Signature From To	lazard		Peri	iod			\$:	
Chief Safety Officer Date Relaxation Extended (See Note v). Azard Division Period From To Signature From Signature	Division		From	To			Signature	
Period Division From To Limit (Kgs)				1.	Chie	ef Sa fet y Of		
Period Division From To Limit (Kgs)		ted (See Note v)						
From To Limit (Kgs)	relaxation Exten	300 (100 1000 17)	Peri	od				
(Kgs)								
officer variety officer	lazard			To			Signature	

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Establish	hment -		ESSEX E	N9 1BP	M ABBEY	,	(11	lding No. grouped ldings.g	N570 with other ive detail	rooms or
Js e			tive State - sed (T) or						POSEC	
		Untrav	sed (1) or ersed (U) - type of Trav nstruction o no. walls an	erse, f d roof	Hazard Divisions	Compatiblity Groups	Man L (Note	imit M&N		osive Limit e ii) (Kgs)
	building for testing of llant	U, and	9" Brick, wall fur n N569 as	roof	1.3	С	M2	NO		40
f this i	s to replace an exis	sting 1	imit, please	state da	te present	limit approved.		25.7.6	8	
explan- atory notes,	Factor influencing Explosives limit		Distance in Metres	1		of building		T or U	Workers present M & N 5	For C.S.O. use 6
111	Inside Perimeter Fe A. Nearest Explosi Storage Unit (a) traversed (b) untraversed	ves	55	N553 C	DB Curin	g		Т	мз мо	
iv	B. Main Office		67	N562 P	1 Office	s & Labs		U	M33N27	
î۷	C. Main Engineerin Workshop	ng	192	P754 F	ire Stat	ion	***************************************	υ	M14N10	
	D. Nearest Explosi Process Buildir (a) traversed	ng and	12			e Breakdown mination	1 &	U	M8 N3	
îv)	E. Give numbers of occupied non-ex buildings with the OQD and giv details at 1 ov	Fall xplosiv in								
	Outside Perimeter F. Nearest building (dwelling house church, etc.)	Fence	307	Quinto	n Hill F	arm				
	G. Nearest road, railway, canal river.	,	212	A112	2 ,					
	16 Edmany 19 Explosive Limits (1		Signature		HNlw	man_		•••••	. Head of	Establishm e

HD 1.3c - 40 Kg Total

Date	17-3-8/	Chief Safety Officer	NImkees.

No.	Use	Distance in metres	T or	Workers present M & N	Remarks	Leave this colum	n for C.S.O
			4				
						T	20 2 0
Is the fire cove							
Relaxation appro	er in accordance with the oved	e recommended Est	ablishmen	t Fire Risk	« Classifica	tion?	Yes.
				t Fire Risk	c Classifica	tion?	Yes.
Hazard		Per		t Fire Risk	c Classifica	tion? Signature	Yes.
Relaxation appro		Per	iod		c Classifica	Signature ficer	Yes.
Hazard Division Limit (Kgs)	nved	Per	iod			Signature	Yes.
Hazard Division Limit (Kgs)		Per	iod To			Signature ficer	Yes.
Hazard Division Limit (Kgs) Relaxation Extend	nved	Per	iod To			Signature ficer	Yes.
Hazard Division Limit (Kgs)	nved	Per	iod To			Signature ficer Date	Yes.

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Establish	Kor, wa.	ltham Abbey				(If			r rooms or ls)
Us e		rotective State - raversed (T) or						POSE	
	U	raversed (1) or ntraversed (U) - tate type of Trav nd construction o uilding, walls an	erse, f d roof	Hazard Divisions	Compatiblity Groups	Man L' (Note	imit M&N i)		losive Limit te ii) (Kgs)
	mental process- colloidal lants	T Brick, boar felt roof	d and	1.1	C C & D	١	1 <mark>6</mark> N4	Bay KBay Bay	3 50kg
f this i	s to replace an exist	ing limit, please	state da	te present	limit approved.	20-	-12-79	•	
xplan- atory notes .	Factor influencing Explosives limit	Distance in Metres	Num	ber and use	of building		T or U	Workers present M & N	For C.S.O.
	1	2		3			4	5	6
111	Inside Perimeter Fend A. Nearest Explosive Storage Unit (a) traversed (b) untraversed		P703 N573	Cordite Magazin	e stove ne		T U	M4 N3 N0	0
iv	B. Main Office	50	1	Office	and Lab		U	10	
iv	C. Main Engineering Workshop	500	G408	BWD Wo	rkshop		U		
	D. Nearest Explosive Process Building (a) traversed as (b) untraversed	nd	N567		mental proce oidal prope		Ü	M4 N2	
iv)	E. Give numbers of a occupied non-exp buildings within the OQD and give details at 1 over	all losive 33	- (1	N568 is :	inert store)			
	Outside Perimeter F F. Nearest building (dwelling house, church, etc.)	ence 325	Quin	ton Hill	Farm				
	G. Nearest road, railway, canal, river.	200	A112						
Date	16-4-84	Signature			ATBell -			•	Establi shmen

PROPOSED LIMITS APPROVED

Date	18-1-85	Chief Safety Officer	NImRees.
------	---------	----------------------	----------

Building No.	Use	Distance in metres	T or	Workers present M & N	Remarks	Leave this colu	mn for C.S.O
		3					
		- 1					
ut some 1.1.C,	which will not	be taken int	e Bay	3b.			
	accordance with the r	recommended Estab	o li shm e n	t Fire Risk	Classifica	tion?	YES
Is the fire cover in a	accordance with the r			t Fire Risk	: Classifica	tion?	YES
Relaxation approved	accordance with the r	Perio		t Fire Risk	: Classifica	tion? Signature	YES
Relaxation approved azard Division	accordance with the n	Perjo	od	t Fire Risk	Classifica		YES
Relaxation approved azard Division	accordance with the n	Perjo	od		Classifica	Signature	YES
Relaxation approved azard livision	accordance with the r	Perjo	od			Signature	YES
		Perjo	od To			Signature ficer	YES
Relaxation approved azard Division isit Kgs)		Perjo	od To			Signature ficer	YES

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.

Establish			PERME. ESSEX E	WALTHA	M ABBEY		(If	lding No. grouped u	with oth	ner rooms or
Us e	1	Travers Untrave State t and con	ive State - ed (T) or rsed (U) - ype of Trave struction of o. walls and	rse,	Hazard Divisions	Compatiblity Groups	Man L (Note	imit M&N		ED kplosive Limit lote ii) (Kgs)
	ge of non - ard propellant	Air 6" c	raid shel oncrete o	ter,	1.3	С	M	12 NO		100
If this i	s to replace an exist	ting li	mit, please	state dat	te present	limit approved.	6	5.3.70		
Explan- atory notes ,	Factor influencing Explosives limit		Distance in Metres 2			of building			workers present M & N 5	
111	Inside Perimeter Fer A. Nearest Explosiv Storage Unit (a) traversed (b) untraversed	ves	70 115			Liquid Stor t of Propel		T	M3NO M2NO	
iv	B. Main Office		187	N562	P1 Offic	es & Labs		U	M33N	[27
iv	C. Main Engineering Workshop	g	287	P754	Fire Sta	tion		υ	M14N	110
	D. Nearest Explosive Process Building (a) traversed a	g and	20	store	and wei	osive ingre ghing nt exhibiti	,	Ū	M10N	14
iv)	E. Give numbers of occupied non-exp buildings within the OQD and give details at 1 ove	all plosive n	treig .							
	Outside Perimeter F F. Nearest building (dwelling house, church, etc.)	Fence	> 400							
	G. Nearest road, railway, canal, river.		330	A112) /					
Date!	6 Ectoury 19	8.1	Signature	B.	H. Newn	An	• • • • • •		. Head o	of Establishment
Unrelaxed	l Explosive Limits (le	eave bl	ank for CSO!	s use)						

HD1.3C-100 Kep

Date	23-7-81	Chief Safety Officer	NImlay.
See	overleaf for relaxations (who	ere appropriate)	

1. Details of Buildings shown at E overleaf. (A sketch of the area should be attached) Distance Tor Workers Building Use Leave this column for C.S.O. Remarks present in No. M & N U metres Brief reference to any factors influencing the relaxation such as special procedures or written instructions that counter the additional potential hazard of the building:-Is the fire cover in accordance with the recommended Establishment Fire Risk Classification? Yes 4. Relaxation approved Period Hazard Signature Division To From Limit (Kgs) Chief Safety Officer Date Relaxation Extended (See Note v). Period Hazard Signature Division From To Limit (Kgs) Chief Safety Officer Date

EXPLANATORY NOTES -

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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.

Establish		PERME, \ ESSEX EN	NALTHAN 19 1BP	ABBEY		(If	ding No. grouped dings. g	N574 with other ive detail	rooms or
Us e		tective State -			-		PRO	POSED	
	Unt	eversed (T) or craversed (U) - ete type of Trave diconstruction or lding, walls and	erse, f	Hazard Divisions	Compatiblity Groups	Man Li (Note	imit M&N		osive Limit e ii) (Kgs)
N.G Was House	h water settling	U 4½" Bri Asbestos roof	ck	1,1	D	M3	NO		10
lf this i	s to replace an existin	g limit, please	state da	te present	limit approved.	25	.7.68		
Explan- atory notes ,	Factor influencing Explosives limit	Distance in Metres 2	Numi	per and use	of building		T or U	Workers present M & N	For C.S.O. use 6
111	Inside Perimeter Fence A. Nearest Explosives Storage Unit (a) traversed (b) untraversed	20		Storage	in Tundish st of Prope		T	M10N8 M2 NO	
iv	B. Main Office	135	N562	P1 Offic	ces & Labs		U	M33N2	
iv	C. Main Engineering Workshop	265	P754	Fire Sta	ation		U	M14N10)
	D. Nearest Explosives Process Building (a) traversed and (b) untraversed	15	N549	Wet Mix		- 1	T	M10N8	
îv)	E. Give numbers of al occupied non-explo buildings within the OQD and give details at 1 overl	eaf							
	Outside Perimeter Fer F. Nearest building (dwelling house, church, etc.)	350	Quint	on Hill	Farm				
	G. Nearest road, railway, canal, river.	280	A112) /					
Date /	6 Elbruary 1981	Signature	5	H. News	Ma			اعد ما دو	Establishme

HO 1-10 - 10 Kgs

1. Details of Buildings shown at E overleaf. (A sketch of the area should be attached) T or Distance Workers Building Use Leave this column for C.S.O. Remarks present in No. M & N U metres Brief reference to any factors influencing the relaxation such as special procedures or written instructions that counter the additional potential hazard of the building:-Is the fire cover in accordance with the recommended Establishment Fire Risk Classification? Yes 4. Relaxation approved Period Hazard Signature Division From To Limit (Kgs) Chief Safety Officer Date Relaxation Extended (See Note v). Period Hazard Signature Division From To Limit

Chief Safety Officer

Date

(Kgs)

EXPLANATORY NOTES -

- i. Both the maximum permitted Man Limit (M) and the number normally present (N) are required.
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- 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

Establishment -	•	ESSEX	ENG 188	AM ABBEY		(If	lding No. grouped ldings.g	with	N57 other etail	rooms or
Jse	Traver Untrave State	tive State - sed (T) or ersed (U) - type of Trav ostruction o	erse, f	Hazard Divisions	Compatiblity Groups	Man L (Note	PRO imit M&N i)	P 0	Expl	osive Limit e ii) (Kgs)
Storage of Cast Liquid	Boar	arth 9" B rd & Felt	Roof	1.1	D		13 NO			500
f this is to replace	an existing li	mit, please	state dat	te present	limit approved.	25	.7.68	Worke	anc	
atory Factor inf		Distance in Metres 2	Numb	per and use	of building		T or U	prese	ent	For C.S.O. use
iii Inside Peri	meter Fence	20	N581 S	torage o	f Waste Pro	pe-	Ū	M2N	0	
Storage	Explosives Unit versed raversed	57	llant	n Proces	s Store for	_	T	M3N		
iv B. Main Of		265	N562 P	1 Office:	s & Labs		U	M33	N27	
iv C. Main En Worksho	gineering o	290	P754 F:	ire Stat:	ion		U	M141	N10	
D. Nearest Process (a) tr	Explosives Building aversed and	67	weighi	ag	sive store		U	M101	N4	
iv) E. Give nu occupie buildin	umbers of all ed non-explosiv gs within and give at 1 overleaf	75	emp							
Outside Pe F. Nearest (dwellin church,	rimeter Fence building ag house, etc.)	>400	-							
river.	, canal,	> 400	- 0			***************************************				
Date 16 Ebruar	/ /	Signature		1. Newh	An.	•••••	••••••	. Hea	d of	Establishme
Jnrelaxed Explosive L	imits (leave bl	ank tor CSO	s use)							

401010 - 200Kg

	Date	17-3-81	Chief Safety Officer	N Im Rees
Į		overleaf for relaxations (wh		

Building No.		Use	Distar in metres		Workers present M & N	Remarks	Leave this	column for C.S.O
				4			. 2	
				1.	print.		2 i.	
				00111				
		accordance with th				< Classifica	ation?	Yes.
			e recommended E	stablishme		« Classifica	ation?	Yes.
Is the fin Relaxation Hazard Division			e recommended E				stion? Signature	Yes.
Relaxation Hazard			e recommended E	stahlishmed	nt Fire Risk	30	Signature	Yes.
Relaxation Hazard Division			e recommended E	stablishme eriod	nt Fire Risk		Signature	Yes.
Relaxation Hazard Division Limit (Kgs)		accordance with th	P From	stablishme eriod	nt Fire Risk	30	Signature ficer	Yes.
Relaxation lazard Division lait (Kgs)	n approved	accordance with th	P From	stablishme eriod	chie	ef Safety Of	Signature ficer Date	Yes
Relaxation Hazard Division Limit (Kgs)	n approved	accordance with th	P From	stablishme eriod	chie	30	Signature ficer	Yes.

EXPLANATORY NOTES -

i. Both the maximum permitted Man Limit (M) and the number normally present (N) are required.

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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 relevation

1	Protect	Waltham Abbey Essex				Building No. N581 (If grouped with other rooms or buildings, give details)			
Traver Untrave State and con building Storage of Waste Building Propellant		onstruction of ling, walls and roof 15" Brick walls RC Roof no			C	PROPOSEI			D
				Divisions	Compatiblity Groups	Man Limit M&N (Note i) M2		Explosive Limit (Note ii) (Kgs) 100kg	
				1.3	С				
replace an exist	ting li	mit, please	state dat	te present	limit approved.	1	25 - 7	- 68	
actor influencing explosives limit		Distance in Metres	Numb		of building		TorU	workers present M & N	For C.S.O.
Nearest Explosiv Storage Unit	ves	20	liqu	Storage			т	M3	6
Main Office		205	Prop	osed SE	Offices		IJ	10	
	g	350					U	20	
Process Building (a) traversed a	g a n d	62 105	P708	Propell	ant exhibit		T	M3 N2 M10 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.		60	-			2			
		505	Quinton Hill Farm						
Nearest road, railway, canal, river.		435	A112	N	AL				
D	replace an exis ctor influencing xplosives limit 1 ide Perimeter Fel Nearest Explosives Storage Unit (a) traversed Main Engineering Workshop Nearest Explosives Building (a) traversed (b) untraversed Give numbers of occupied non-expluiting the OQD and give details at 1 overside Perimeter In Nearest building (dwelling house, church, etc.) Nearest road, railway, canal,	replace an existing li ctor influencing xplosives limit 1 ide Perimeter Fence Nearest Explosives Storage Unit (a) traversed Main Office Main Engineering Workshop Nearest Explosives Process Building (a) traversed and (b) untraversed Give numbers of all occupied non-explosive buildings within the OQD and give details at 1 overleaf side Perimeter Fence Nearest building (dwelling house, church, etc.) Nearest road, railway, canal, river.	f Wastes t 8" RC Roof no windows, ligh replace an existing limit, please ctor influencing xplosives limit 1 2 ide Perimeter Fence Nearest Explosives Storage Unit (a) traversed Main Office Main Office Main Engineering Workshop Nearest Explosives Process Building (a) traversed and (b) untraversed Give numbers of all occupied non-explosive buildings within the OQD and give details at 1 overleaf side Perimeter Fence Nearest building (dwelling house, church, etc.) Nearest road, railway, canal, 435 river.	f Waste 8 8" RC Roof no windows, light door replace an existing limit, please state date of the control of the	f Waste: 8" RC Roof no windows, light door replace an existing limit, please state date present ctor influencing place in Metres and use in Metres and use in Metres are state liquid liquid. It aversed limit are liquid liqu	The Waste of Waste of the Waste	replace an existing limit, please state date present limit approved. ctor influencing xplosives limit in Metres 1 2 3 ide Perimeter Fence Nearest Explosives Storage Unit (a) traversed (b) untraversed (b) untraversed Main Office 205 Proposed SE Offices Main Engineering Workshop Nearest Explosives Process Building (a) traversed and (b) untraversed (b) untraversed (coupled non-explosive buildings within the 000 and give details at 1 overleaf side Perimeter Fence Nearest building (dwelling house, church, etc.) Name of the walls at 1 overleaf side Perimeter Fence Nearest building (dwelling house, church, etc.) Number and use of building in Metres 20 N579 Storage of Casting Liquid N586 Storage of Waste propella Liquid N586 Storage of Waste propella Proposed SE Offices Refore The Number and use of building in Metres 20 N579 Storage of Casting Liquid N586 Storage of Waste propella Liquid N586 Storage of Waste propella	Twaste: U 15" Brick walls 8" RC Roof no windows, light door 1.3 C M2	Twaste: U 15" Brick walls 8" RC Roof no windows, light door replace an existing limit, please state date present limit approved. To U 10 Workers present in Metres in Metres 1 2 3 4 5 5 1 1 2 3 4 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

HD 1.30 - 100Kp

Date 28-8-80 Chief Safety Officer NJun Rees

		g).				
year e						
3.						
Is the fi	re cover in accordance		ecommended Esta		re Risk Classification?	Yes
4. Relaxatio	on approved			-		
Hazard			Perji	iod	Ç• 1	
Division			From	To	Signature	
Limit (Kgs)						
					Chief Safety Officer Date	
Relaxation	Extended (See Note v).		-		apharpy agreement and a state of the state o
Hazard			Peri	od	\$2	
Division		-	From	To	Signature	
Limit (Kgs)	4 97	5 6 6 9 B			Chief Safety Officer	

Date

EXPLANATORY NOTES -

i. Both the maximum permitted Man Limit (M) and the number normally present (N) are required.

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		otective State -				vildings, give details) PROPOSED				
	Un St an	aversed (T) or traversed (U) - ate type of Trave d construction of ilding, walls and	erse, f	Hazard Divisions	Compatiblity Groups	Man L (Note	imit M&N		osive Limit e ii) (Kgs)	
Stora	ge of Waste U									
		"RC roof win	roof window s boarded, light		C		M2		100kg	
									7. = 7	
f this i	s to replace an existi	ng limit, please	state dat	e present	limit approved.	1	0-10-71	+		
xplan- itory notes ,	Factor influencing Explosives limit	Distance in Metres		er and use	of building		T or U	workers present M & N	For C.S.O.	
	1	2	ļ	3			4	5	6	
iii	Inside Perimeter Fenc A. Nearest Explosive Storage Unit	s 25	liqui	đ.	of Casting		Ţ	M3		
	(a) traversed (b) untraversed	10	N581	Storage	of Waste Pr	ropel.	ant U	BIC		
iv	B. Main Office	195	Propo	sed SE C	ffices		U	10		
iv	C. Main Engineering Workshop	340	G1+08	BWD Work	shops		U	20		
	D. Nearest Explosive Process Building (a) traversed an (b) untraversed	108	P708	Dry NC w Propella explosi ing	eighing nt exhibiti ve ingredie	ion ent	U	M3 N2 M10 N4		
îv)	E. Give numbers of a occupied non-expl buildings within the OQD and give details at 1 over	osive 60								
	Outside Perimeter Fe F. Nearest building (dwelling house, church, etc.)	500 500	Quin	ton Hill	Farm					
	G. Nearest road, railway, canal, river.	455	A112	N						

Hy 1.3 c - 10014.

Date 28, 7,80	Chief Safety Officer	NImRees.
See overleaf for relaxations (wh	ere appropriate)	

1. Details of Buildings shown at E overleaf. (A sketch of the area should be attached) T or Workers Building Distance Use Leave this column for C.S.O. present Remarks in No. U M & N metres 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:-

Hazard Division		Perio	d	6.		
Division		From	T ₀	Signature		
Ligit (Kgs)						
				Chief Safety Officer		
-				Date		

Yes

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

4. Relaxation approved

Relaxation Extended (See Note v).

Hazard
Division

From
To

Signature

Chief Safety Officer

Date

.