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*APPENDIX C*  
*HISTORICAL RECORDS*

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FW 80-1

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**Administrative Record**

FORT WINGATE DEPOT ACTIVITY, GALLUP, NEW MEXICO

**Document No. 80-1**

*Final Report  
Installation Assessment of  
Fort Wingate Army Depot Activity,  
Gallup, New Mexico,  
Report No. 136*

U.S. Army Toxic and Hazardous Materials Agency

January 1980




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INQUIRIES REGARDING THIS DOCUMENT AND/OR THE ADMINISTRATIVE RECORD FOR  
FORT WINGATE DEPOT ACTIVITY SHOULD BE MADE TO:  
COMMANDER, TOOELE ARMY DEPOT, TOOELE, UTAH 84074

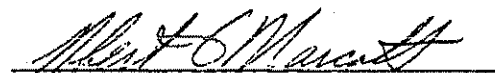
INSTALLATION ASSESSMENT  
OF  
FORT WINGATE ARMY DEPOT ACTIVITY

REPORT NO. 136


CONCUR:

  
JERRY K. PATTERSON  
Colonel, OrdC  
Commanding  
Tooele Army Depot

CONCUR:

  
ROBERT G. MARCOTTE  
Major, CmIC  
Commanding  
Fort Wingate Army Depot Activity

APPROVED:

  
FRANK A. JONES, JR.  
Colonel, CmIC  
Commanding  
US Army Toxic and Hazardous  
Materials Agency

b. Contaminated Waste

The demolition area has been used as a dumping ground for explosives-contaminated material that had not been decontaminated. Old equipment from the TNT drying and flaking operations was removed from Building 503 during the renovation of the building. This equipment was dumped in the demolition area without being decontaminated or washed.

There are no burial sites for nonexplosive-contaminated wastes on this installation. Materials that contain explosives or explosive materials are detonated at the demolition area and the residues, if any, are left at the demolition site.

3. Demolition and Burning Ground

a. Demolition Area

Ten demolition pads were identified by the Records Search Team. These pads are located within a fenced area (21).\* Approximately 4,536 kilograms of explosives are allowed to be detonated at one time with sufficient earth cover; 2,268 kilograms can be detonated without earth cover. Types of explosives that were destroyed are shown in chart form submitted as Appendix J. Destruction of 2,324 metric tons of WP is scheduled for the near future.

b. Burning Grounds

Two burning ground areas were located at FWDA. The first area (22) was used to burn explosives and explosive-contaminated material from 1948 to 1955. This burning ground was certified clear and closed in 1955. The second area (23) is the present area used for burning, and was started in 1955.

4. Demilitarization

Beginning in 1949, munitions washout operations were conducted in the 500 series area. Munitions were received in Building 500 where they were unpacked, broken down, and transported to Building 503. There, a hot water washout operation was conducted. The munitions contents (TNT, RDX, Tritonal) were pumped into a storage and drying tank located in the flaker room on the second floor of the building, then flaked, dropped into a hopper in the room below, and boxed and shipped to various Army Ammunition Plants (AAP) for reuse.

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\*Numbers in parentheses are keyed to Figure 8.

APPENDIX J  
EXPLOSIVES DESTROYED IN DEMOLITION AREA, 1976

EXPLOSIVES DESTROYED IN  
DEMOLITION AREA, 1976

Type & Configuration of Explosive	Total Qty Explosive & in broken out amounts	Location of Demolition Pit	Date of Demo	Time of Demo	Depth of Pit	No. of Rounds & Depth of cover
Cyclotol Bomb Aircraft CBU 2 A/A	1591 lbs Bomblets BLU-3/B=1431 lbs Comp C-4=160 lbs	5	14 Mar	1355 hr	N/A	10 (no cover)
"	"	5	15 Mar	1500 hr	N/A	"
"	"	6	15 Mar	1505 hr	N/A	"
"	"	5	16 Mar	1500 hr	N/A	"
"	"	6	16 Mar	1505 hr	N/A	"
"	"	5	18 Mar	1500 hr	N/A	"
"	"	6	18 Mar	1505 hr	N/A	"
Cyclotol Bomb Aircraft CBU 2 C/A	1601 lbs Bomblets BLU-3/B=1441 lbs Comp C-4=160 lbs	6	21 Mar	1455 hr	N/A	"
"	"	7	21 Mar	1500 hr	N/A	"
Cyclotol Bomb Aircraft CBU 2 C/A	1169 lbs Bomblets BLU-3/B=1009 lbs Comp C-4=160 lbs	5	8 Apr	1500 hr	N/A	7 (no cover)
"	"	6	8 Apr	1505 hr	N/A	"
Cyclotol Bomb Aircraft CBU 2/A	1451 lbs Bomblets BLU-3/B=1291 lbs Comp C-4=160 lbs	4	11 Apr	1432 hr	N/A	10 (no cover)

DRXTE-SEF (2 Dec 76)

Subject: Continuation of a disposition form comment

Type & Configuration of Explosive	Total Qty Explosive & in broken out amounts	Location of Demolition Pit	Date of Demo	Time of Demo	Depth of Pit	No. of Rounds & Depth of cover
Cyclotol Bomb Aircraft CBU 2/A	1451 lbs Bomblets BIU-3/B=1291 lbs Comp C-4=160 lbs	4A	11 Apr	1437 hr	N/A	10(no cover)
" " "	" " "	6	12 Apr	1457 hr	N/A	" " "
" " "	" " "	5	12 Apr	1502 hr	N/A	" " "
" " "	" " "	4	12 Apr	1507 hr	N/A	" " "
Cyclotol Bomb Aircraft CBU 2 A/A	1591 lbs Bomblets BIU-3/B=1431 lbs Comp C-4=160 lbs	5A	13 Apr	1456 hr	N/A	" " "
Cyclotol Bomb Aircraft CBU 2 C/A	1601 lbs Bomblets BIU-3/B=1441 lbs Comp C-4=160 lbs	4A	13 Apr	1501 hr	N/A	" " "
Cyclotol Bomb Aircraft CBU 2/A	1451 lbs Bomblets BIU-3/B=1291 lbs Comp C-4=160 lbs	4	13 Apr	1506 hr	N/A	" " "
Cyclotol Bomb Aircraft CBU 2 A/A	1591 lbs Bomblets BIU-3/B=1431 lbs Comp C-4=160 lbs	5A	14 Apr	1456 hr	N/A	" " "
" " "	" " "	4A	14 Apr	1601 hr	N/A	" " "
" " "	" " "	4	14 Apr	1606 hr	N/A	" " "
" " "	" " "	4A	18 Apr	1500 hr	N/A	" " "

DRXTE-SEF (2 Dec 76)  
 Subject: Continuation of a disposition form comment

Type & Configuration of Explosive	Total Qty Explosive & in broken out amounts	Location of Demolition Pit	Date of Demo	Time of Demo	Depth of Pit	No. of Rounds & Depth of cover
Cyclotol Bomb Aircraft CBU 2 A/A	1591 lbs Bomblets BUJ-3/B=1431 lbs Comp C-4=160 lbs	5	18 Apr	1506 hr	N/A	10 (no cover)
"	"	5A	18 Apr	1511 hr	N/A	"
"	"	5	19 Apr	1500 hr	N/A	"
"	"	4A	19 Apr	1506 hr	N/A	"
"	"	4A	20 Apr	1500 hr	N/A	"
"	"	5A	20 Apr	1506 hr	N/A	"
"	"	4A	21 Apr	1500 hr	N/A	"
"	"	5	21 Apr	1506 hr	N/A	"
"	"	5A	21 Apr	1511 hr	N/A	"
"	"	4A	22 Apr	1500 hr	N/A	"
"	"	5	22 Apr	1506 hr	N/A	"
"	"	5A	22 Apr	1511 hr	N/A	"
"	"	4	25 Apr	1500 hr	N/A	"
"	"	4A	25 Apr	1506 hr	N/A	"
"	"	5	25 Apr	1511 hr	N/A	"
"	"	4	26 Apr	1500 hr	N/A	"



DRXTE-SEF (2 Dec 76)

Subject: Continuation of a disposition form comment

Type & Configuration of Explosive	Total Qty Explosive & in broken out amounts	Location of Demolition Pit	Date of Demo	Time of Demo	Depth of Pit	No. of Rounds & Depth of cover
Cyclotol Bomb Aircraft CBU 2 A/A	1591 lbs Bomblets BLU-3/B=1431 lbs Comp C-4=160 lbs	5	26 Apr	1506 hr	N/A	10 (no cover)
"	"	5A	26 Apr	1511 hr	N/A	"
"	"	4A	27 Apr	1500 hr	N/A	"
"	"	5	27 Apr	1506 hr	N/A	"
"	"	5A	27 Apr	1511 hr	N/A	"
"	"	4A	28 Apr	1500 hr	N/A	"
"	"	5	28 Apr	1506 hr	N/A	"
"	"	5A	28 Apr	1511 hr	N/A	"
"	1618 lbs Bomblets BLU-3/B=1431 lbs Mines M-15=182 lbs Comp C-4=5 lbs	4A	29 Apr	1130 hr	N/A	"
"	"	4	2 May	1500 hr	N/A	"
"	"	5	2 May	1506 hr	N/A	"
"	"	5A	2 May	1511 hr	N/A	"
"	"	4	3 May	1508 hr	N/A	"
"	"	5	3 May	1514 hr	N/A	"
"	"	5A	3 May	1520 hr	N/A	"

DRXTE-SEF (2 Dec 76)

Subject: Continuation of a disposition form comment

Type & Configuration of Explosive	Total Qty Explosive & in broken out amounts	Location of Demolition Pit	Date of Demo	Time of Demo	Depth of Pit	No. of Rounds & Depth of cover
Cyclotol Bomb Aircraft CBU 2 A/A	1618 lbs Bomblets BIU-3/B-1431 lbs Mines M-15-182 lbs Comp C-4-5 lbs	4	4 May	1520 hr	N/A	10 (no cover)
"	"	4A	4 May	1526 hr	N/A	"
"	"	5	4 May	1530 hr	N/A	"
"	"	4A	5 May	1510 hr	N/A	"
"	"	5	5 May	1515 hr	N/A	"
"	"	5A	5 May	1520 hr	N/A	"
"	"	4A	6 May	1505 hr	N/A	"
"	"	5	6 May	1520 hr	N/A	"
"	"	5A	6 May	1525 hr	N/A	"
"	"	4	9 May	1505 hr	N/A	"
"	"	5	9 May	1520 hr	N/A	"
"	"	5A	9 May	1525 hr	N/A	"
"	1188 lbs. Bomblets BIU-3/B-1001 lbs Mines M-15-182 lbs Comp C-4-5 lbs	5	10 May	1500 hr	N/A	"
TNT Suppl Chg	3997 lbs Suppl Chg=3513 lbs TNT Flake 480 lbs TNT Demo Blocks=41bs	5	11 May	1508 hr	N/A	11,710(no cover)

DRYTE-SEF (2 Dec 76)

Subject: Continuation of a disposition form comment

<u>Type &amp; Configuration of Explosive</u>	<u>Total Qty Explosive &amp; in broken out amounts</u>	<u>Location of Demolition Pit</u>	<u>Date of Demo</u>	<u>Time of Demo</u>	<u>Depth of Pit</u>	<u>No. of Rounds &amp; Depth of cover</u>
TNT Suppl Chg	3997 lbs Suppl Chg=3513 lbs TNT Flake=480 lbs TNT Demo Blocks=4 lbs	5A	11 May	1513 hr	N/A	11,710(no cover)
"	" " " "	5	12 May	1518 hr	N/A	" " "
"	" " " "	5A	12 May	1523 hr	N/A	" " "
"	" " " "	6	12 May	1528 hr	N/A	" " "
"	4920 lbs Suppl Chg=4436 lbs TNT Flake=480 lbs TNT Demo Block=4 lbs	4	13 May	1400 hr	N/A	14,785(no cover)
"	4984 lbs Suppl Chg=4500 lbs TNT Flake=480 lbs TNT Demo Blocks=4 lbs	5	13 May	1406 hr	N/A	15,000(no cover)
"	4680 lbs Suppl Chg=4196 lbs TNT Flake=480 lbs TNT Demo Blocks=4 lbs	5A	13 May	1410 hr	N/A	13,985(no cover)
"	4878 lbs Suppl Chg=4374 lbs TNT Flake=500 lbs TNT Demo Blocks=4 lbs	4	16 May	1500 hr	N/A	14,580(no cover)
"	" " " "	4A	16 May	1505 hr	N/A	" " "

...  
 (100 75)  
 Subject: Description of a disposition form comment

Type & Configuration of Explosive	Total Qty Explosive & in broken out amounts	Location of Demolition Pit	Date of Demo	Time of Demo	Depth of Pit	No. of Rounds & Depth of cover
TNT Suppl Chg	4878 lbs Suppl Chg=4374 lbs TNT Flake=500 lbs TNT Demo Blocks=4 lbs	5	16 May	1518 hr	N/A	14,580 (no cover)
" " "	" " " "	5A	16 May	1515 hr	N/A	" " "
" " "	4801 lbs Suppl Chg=4277 lbs TNT Flake=520 lbs TNT Demo Blocks=4 lbs	4A	17 May	1510 hr	N/A	14,256 (no cover)
" " "	4881 lbs Suppl Chg=4277 lbs TNT Flake=600 lbs TNT Demo Blocks=4 lbs	5A	17 May	1515 hr	N/A	" " "

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1 Incl  
 Demo Ground map

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## OB/OD RECORDS FROM FWDA FILES

EK NOTE: THE ATTACHED INFO WAS FOUND IN AN UNMARKED BOX OF RECORDS DURING RECORDS MGMT. EFFORT IN 2007. THE BOX WAS NOT IN THE MAIN FWDA FILE LOCATION AT THE TIME, AND HAD NOT BEEN MADE AVAILABLE FOR REVIEW AT TIME OF HIST. DOC. SEARCH

CC: FILE  
RGG

# DISPOSITION FORM

For use of this form, see AR 340-15, the proponent agency is TAGCEN.

REFERENCE OR OFFICE SYMBOL

SUBJECT

SDSTE-FWM

Open Burning Abatement Projects

S: 15 Feb 80

TO SDSTE-SEF - Depot Fac Div FROM Chief, Mission Division DATE 12 Feb 80 CMT 1  
ATTN: Mr. Fisher CPT Wiessner/sj/350

1. Per your DF, dtd 21 Jan 80, subject as above, the following information is forwarded concerning demil operations at Ft Wingate Depot Activity.

- a. State rules applying to open burning: furnished previously under separate cover.
- b. Type and quantity of demil workload: see Incl 1 (FY-79) and Incl 2 (FY-80).
- c. Type and quantity of demil workload shipped in from other installations for the sole purpose of open burning/detonation: see Incls 1 and 2.
- d. Content breakout: See Incls 1 and 2
- e. Pertinent data from Weston report: This report was not received at FWDA. However, FWDA currently has no ammunition operations scheduled (except for open burning/detonation) that would produce contaminated waste.
- f. Munitions or waste that are designated for open burning that could not be transported off-depot for safety reasons: None

2. Included in the inclosures is 25<sup>1</sup>/<sub>3</sub> tons of WP munitions currently carried in our demil account. However, since open air demil of these items are forbidden by DESCOM (msg, 091705Z Jan 80), these munitions await the construction of a WP demil facility here or shipment to another installation.

3. Attached, as Incl 3, is a copy of FWDA's current open-burning permit.

4. Any questions concerning the information herein may be addressed to CPT Wiessner, SDSTE-FWM, FWDA, Ext 350.

3 Incl  
as

  
JEFFREY T. WIESSNER  
CPT *sdde*  
Chief, Mission Division

SDSTE-FWM  
SDSTE-SEF - Depot Fac Div  
ATTN: Mr. Fisher

Open Burning Abatement Projects  
Chief, Mission Division

S: 15 Feb 80  
12 Feb 80  
CPT Wiessner/sj/350

1. Per your DF, dtd 21 Jan 80, subject as above, the following information is forwarded concerning demil operations at Ft Wingate Depot Activity.

a. State rules applying to open burning: furnished previously under separate cover.

b. Type and quantity of demil workload: see Incl 1 (FY-79) and Incl 2 (FY-80).

c. Type and quantity of demil workload shipped in from other installations for the sole purpose of open burning/detonation: see Incls 1 and 2.

d. Content breakout: See Incls 1 and 2

e. Pertinent data from Weston report: This report was not received at FWDA. However, FWDA currently has no ammunition operations scheduled (except for open burning/detonation) that would produce contaminated waste.

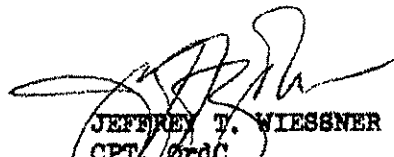
f. Munitions or waste that are designated for open burning that could not be transported off-depot for safety reasons: None

2. Included in the inclosures is 2543 tons of WP munitions currently carried in our demil account. However, since open air demil of these items are forbidden by DESCOM (msg, 091705Z Jan 80), these munitions await the construction of a WP demil facility here or shipment to another installation.

3. Attached, as Incl 3, is a copy of FWDA's current open-burning permit.

4. Any questions concerning the information herein may be addressed to CPT Wiessner, SDSTE-FWM, FWDA, Ext 350.

3 Incl  
as

  
JEFFREY T. WIESSNER  
CPT, OrdC  
Chief, Mission Division

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FORT WINGATE DEPOT ACTIVITY DEMILITARIZATION FY 1979

<u>NOMENCLATURE</u>	<u>NSN</u>	<u>FILL</u>	<u>QTY</u>	<u>TONS</u>	<u>METHOD</u>
Prop M7 F/3.5"	1340002202051	Prop	7632	5.877	Burn
Masket Rubber F/M13	1320004205135	----	3401	.174	Burn
Signal Kit Personnel AP	1370009216172(L116)	Pyro	9	.004	Burn
				<u>6.055</u>	
M1 Delay Plunger Assy	1390000693070	Blk Pwder	2502	.267	Detonation
Ctg 40MM HE-T	1310005420385(B562)	TNT	321	1.070	Detonation of
Lug Suspension Bomb	1325001164452	---	50	.023	Detonation ision
Bottom Closing Screw Assy	1390000772138	---	5040	.023	Detonation
*Bomb Frag BLU-26B	1325L00113228	HE	93	.052	Detonation
*Bomb Frag BLU-E/B	060012000076Y	HE	216	.240	Detonation
*Bomb Frag BLU-63/B	132500X786027	HE	1349	.858	Detonation
*Bomb BLU 7A/B	060003880076Y	HE	209	.150	Detonation
*Bomb BLU 7A/B	060003880176Y	HE	416	.300	Detonation
*Dispenser Bomb CBU-1A/A	1325004465367(E180)	BLU-4A/B	528	343.728	Detonation
*Dispenser Bomb CBU-2A/A	1325009927122(E181)	BLU-3/B	89	61.321	Detonation
**Dispenser Bomb CBU-3/A	1325009943061(E182)	BLU-7/B	953	592.290	Detonation
**Dispenser Bomb CBU-3A/A	1325008682631(E182)	BLU-7A/B	1905	1145.857	Detonation
**Dispenser Bomb CBU-2/A	1325007391741(E181)	BLU-3/B	1	.632	Detonation
*Dispenser ACFTX M25	060020500076Y	Unk	3	1.038	Detonation
*Dispenser CBU 24/B	060020860076Y	BLU-26/B	3	.023	Detonation
*Dispenser Bomb CBU 29/B	1325009334955(E178)	BLU-36/B	1	.585	Detonation
*Dispenser Bomb	1325008092566(E174)	<del>Unk</del> BLU-54/B	2	.293	Detonation
**Dispenser Bomb 58T1	1325001823301BY20	BLU-63	1	.482	Detonation
**Dispenser Bomb CBU-58	1325004772058(E803)	BLU-63	8	4.320	Detonation
**Dispenser and Mine	1345000898543(K281)	<del>Unk</del> CBU-33A	2	1.080	Detonation
			TOTAL	2154.632	
			GRAND TOTAL	2160.687	

\* - Shipped from Letterkenny Army Depot for Demil  
 \*\* - Shipped from Anniston Army Depot for Demil

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FT WINGATE DEPOT ACTIVITY DEMILITARIZATION - FY 1980

FY 1980 COMPLETED

<u>NOM</u>	<u>NSN</u>	<u>FILL</u>	<u>QTY</u>	<u>TONS</u>	<u>METHOD</u>
Fuze, PD M557	1390008924302(N335)	Unk	2359	4.333	Detonate
Cntr, Fiber M306	8140008276249	---	20066	55.182	Burn
				59.182	

FY 1980 SCHEDULED

<u>NOM</u>	<u>NSN</u>	<u>FILL</u>	<u>QTY</u>	<u>TONS</u>
*WARHEAD 2.75" SMK WP	1340-00-782-5848(H855)	WP	583	3.227
*PROJ 120MM WP	1315-11AM2-0147	WP	9131	410.134
*PROJ 155MM SMK WP	1320-00-529-7347(D550)	WP	13696	710.480
*GRENADE HAND SMK WP	1330-00-219-8510(G935)	WP	12198	16.201
*PROJ 155MM SMK WP	1320-00-529-7339(D550)	WP	37	1.919
*GRENADE HAND WP	1330-00-676-2671(G937)	WP	10877	13.536
*GRENADE RIFLE M19A1	1330-00-028-6886(H030)	WP	2622	5.747
*GRENADE RIFLE M19A1	1330-00-028-5863	WP	7191	15.760
*RKT 3.5" SMK WP	1340-00-028-6093(H602)	WP	137040	1365.817
*CBU MK15 MOD-Ø	1325-00-074-0389	M40 Gren.	2762	1494.242
*CBU 24 C/B	1325-00-143-7093	BLU-26	4	2.145
				4039.208

\*Shipped from McAlester Depot for Demil

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STATE OF NEW MEXICO  
Environmental Improvement  
Division

APPLICATION FOR AN OPEN-BURNING PERMIT

17 JAN 1980

Name of Applicant Ft. Wingate Depot Activity Telephone 488-5411 Ext. 301

Address 10 miles east of Gallup on I-40, Gallup, New Mexico 87301

Date(s) burning requested January, 1980 - June 1980

Exact location and direction to site Demolition Area, 5 miles south from administrative area, Ft. Wingate Depot Activity

Type and quantity of material to be burned Dept. of Defense hazardous explosives (Aprox. 1496 tons)

Method of ignition and how burning will be maintained and controlled Ignited with safety igniter/safety matches controlled by Ft. Wingate Depot Activity Fire Department

Why is burning necessary? Some types of hazardous material (explosives) must be burned for disposal

List alternatives to burning and reasons why alternatives to burning are not feasible Most of the hazardous material (explosives) must be detonated for disposal.

I herewith make application to the HED Environmental Improvement Division for an open-burning permit under the requirements of Air Quality Control Regulation 301, Sub-section F. I agree to meet all conditions set forth by the Environmental Improvement Division.

Signed Samuel B. Duran, program Supt. officer Date 17 Jan 80  
Applicant

This application has been received by the HED Environmental Improvement Division and is  APPROVED  DENIED for the following reasons:

This permit is good only between January, 1980 thru ~~xxx~~ June, 1980 and is subject to the following conditions:

1. All burning must take place during the time period of three hours after sunrise to one hour before sunset.
2. The wind direction at the site of burning must be such that the smoke will generally be carried away from public roads and areas of human habitation.
3. All burning will cease when atmospheric conditions are such that an air stagnation advisory is issued for your area by the U.S. Weather Service.
4. All material to be burned shall be as dry as possible and amount of dirt must be minimized on material being burned.
5. No natural or synthetic rubber products or petroleum products shall be burned.
6. All applicable restrictions, codes and ordinances (e.g., fire codes or ordinances), whether temporary or permanent, of other governmental bodies must be complied with.
7. Other conditions: \_\_\_\_\_

The Division reserves the right to cancel this permit at any time if the public interest so warrants it. If such action occurs, an alternative method of disposal must be used. The holder of this permit is therefore cautioned and charged that he/she, and he/she alone, assumes full responsibility to exercise the utmost care and judgment before setting any fires. The Environmental Improvement Division hereby disclaims any and all liability of itself or it's agents that might be incurred by petitioner's acts.

Signed Robert Peiriso, Engr. III Dist. No. 1 Date 18 Jan '80  
Name and Title



DEPARTMENT OF THE ARMY  
U. S. ARMY ENVIRONMENTAL HYGIENE AGENCY  
ABERDEEN PROVING GROUND, MARYLAND 21010

HSE-EA/WP

FORT WINGATE DEPOT ACTIVITY

1. REFERENCE. Measurement of Air and Ground Shock Disturbances at Fort Wingate Ordnance Depot, Explosives Research Group, Institute for the Study of Rate Processes, University of Utah, Salt Lake City, Contract No. DA-04-495-ORD-407 (1955).

2. FINDINGS AND DISCUSSION.

a. Mr. Fred Theobald and Mr. Curtis Bond, this Agency, visited Ft Wingate Depot Activity (FWDA) on 17 July 1979. Personnel contacted were:

MAJ R. G. Marcotte	Commander, FWDA
CPT J. T. Wiessner	C, Mission Division, FWDA
Mr. A. Bond	FWDA

b. Description of Current Demolition Operations. FWDA demolition area is located on the southwest corner of the installation. FWDA detonates an average charge weight of 3500 lb and a maximum weight of 5000 lb. The explosive is detonated on the ground in trenched embankments that were previously bulldozed into the sides of the demolition area. The charges are detonated at a rate of four charges within a 6-minute time period. During FY 78, FWDA detonated items with a total explosive weight of 515,502 lb (Inclosure 1). Items detonated or scheduled for FY 79 have a total explosive weight of 671,733 lb (Inclosure 2). Inclosure 3 indicates those items scheduled for demil pending DPDO action and includes 2,543 short tons of WP munitions.

c. Noise.

(1) Population Exposure to Demolition Noise. The closest land use area to the demolition grounds include: Old Fort Wingate, a small residential community, approximately 10 miles from the demolition area; Red Rock State Park, a campground and rodeo stadium, approximately 12 miles away; and Church Rock, several houses, also 12 miles away. The closest community to the demolition area is Gallup with a population of 15,000 residents located 11 miles west of the depot.

(2) Complaint History. There are currently no complaint logs maintained at the installation. The only complaints that have occurred are one complaint from a resident of Gallup and one from a worker doing building maintenance at Red Rock State Park.

(3) Past Recommendations on Limits. The referenced University of Utah study recommended a maximum charge weight of 10,000 lb per detonation.

(4) Regulatory Limits. There are no laws governing blast noise for New Mexico.

INCH 11

HSE-EA/WP

SUBJECT: Open Detonation of Demil Stocks

(5) Future Requirements for Demolition. Future requirements for demolition can be met by increasing the number of pits used each day.

d. Air Pollution.

(1) New Mexico air pollution regulations do not specifically address open detonation; however, Section 301, Regulation to Control Open Burning, does allow open burning of explosive material where the transportation of such materials to other facilities could be dangerous (Inclosure 4) and when a permit has been obtained. FWDA has obtained a permit to open burn/open detonate (Inclosure 5). It appears the major air pollution issue concerning the long-term nature of this operation at FWDA is the origin of the material. Most items detonated are shipped in from other installations and the State's reaction to this is unknown.

(2) Visual observations of the detonation activities showed a visual plume that lasted 5-10 minutes but did not move beyond the installation boundaries.

3. RECOMMENDATIONS. None.

DEMIL ACCOMPLISHED DURING FY-78

The following data is furnished and involves detonation/burning operations conducted on demolition range only.

<u>NSN</u>	<u>NOM</u>	<u>QTY</u>	<u>E,C/RD</u>	<u>TOTAL E.C.</u>	<u>METHOD OF DEMIL.</u>
131500284734C122	CTG 76MM H2	9827	-----	-----	Disassembly
	Primers generated from CTG 76MM HE	9827			Detonation
	HE Projectiles generated from CTG 76MM HE	9827	1.46#	14347.2#	Detonation
1315007825838C276	CTG 81MM SMK WP	262	Not Available		Detonation
1330002198557G900	Grenade Rifle Hand INCD	16561	1.65#	27325.7#	Burning
1315009650573G454	CTG 105MM WP	30	.21#	6.3#	Detonation
1315002286284C477	CTG 105MM WP	13	Not Available		Detonation
1315008924895C454	CTG 105MM WP	27	.21#	5.7#	Detonation
1315000284831C454	CTG 105MM WP	112	.21#	23.5#	Detonation
131500LLAM20139	Proj 105MM WP	9	Not Available		Detonation
13150014758950258	CTG 90MM SMK WP	1	Not Available		Detonation
131500LLAM20119	Proj 90MM SMK WP	99	Not Available		Detonation
1340007825848H855	Warhead 2.75" SMK WP	1	.31#	.31#	Detonation
1315000285020C708	CTG 4.2" WP	180	.21#	37.8#	Detonation
1315009356068C276	CTG 81MM WP	7	.03#	.21#	Detonation
1325009375672E181	CBU 2C/A	7	144#	1008.#	Detonation
1325009355671E181	CBU 2C/A	4	144#	576.#	Detonation
1325004465367E180	CBU 1A/A	1364	91#	124124.#	Detonation
1325007391741E181	CBU 2/A	9	129#	1161#	Detonation
1325009927122E181	CBU 2A/A	10	143#	1430#	Detonation
132500512880E181	CBU 2B/A	10	144#	1440#	Detonation
1325009375672E181	CBU 2C/A	49	144#	7056#	Detonation
1325008682631E182	CBU 3A/A	2340	144#	336960#	Detonation

Total explosive weight of items destroyed at demo range: 515,501.72#

*Page 11*

Demil Accomplished During FY-79 as of 20 July 1979

NSN	N O M	QTY	E.C/RD	TOTAL E.C	METHOD OF DEMIL
060003880076Y	Bomb BLU 7A/B	209	1.40#	292.6#	Detonation
060003880176Y	Bomb BLU 7A/B	416	1.40#	582.4#	Detonation
060012000076Y	Bomb Frag BLU EB HE	216	Not Available		Detonation
1310005420385B562	Ctg 40MM HE	321	.20#	64.2#	Detonation
1325004465367E180	CBU 1A/A	528	91#	48048#	Detonation
1325009927122E181	CBU 2A/A	89	143#	12727#	Detonation
1325009923061E182	CBU 3/A	793	223#	176839#	Detonation
1340002202051	Prop M7	7632	LB	7632#	Burn
1370009216172L116	Signal Kit Personnel A/P	9	.08#	.72#	Burn
1325L00113228	Bomb Frag BLU-26B	93	.18#	16.7	Detonation
132500x786027	Bomb Frag BLU-63/B	1349	.24	323.8#	Detonation
Total explosive weight of items destroyed				246,526.42#	

Scheduled 4th Qtr FY-79

06002050076Y	Dispenser ACETYM25	3	Not available		Detonation
060020860076Y	CBU 24/B	3	Not available		Detonation
1325009334955E178	CBU 29/B	1	Not available		Detonation
1325008092566E174	CBU 49	2	117		Detonation
1325008682631E182	CBU 3A/A	1900	211#	400900#	Detonation
1325009923061E182	CBU 3/A	109	223#	24307#	Detonation
Total Explosive Weight				425,207	

FY79 Total explosive weight 671,733.42#

Incl 11<sup>2</sup>

SOSITE-FM

## Report on Demil Production

SOSITE-DSP

Chief, Mission Division

29 June 1979

1. The following production report is submitted for the month of June 1979:

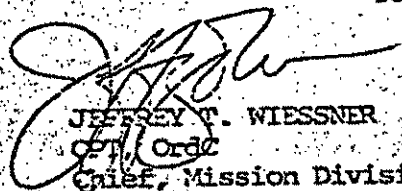
<u>NOM</u>	<u>NSN</u>	<u>QTY</u>	<u>TONS</u>	<u>ACC. VALUE</u>
TCMWP CBU 1A/A	1325-00-446-5367 (E180)	528	343.728	\$176,880.00
← CBU 2A/A	1325-00-992-7122 (E181)	89	61.321	529,550.00
# CBU 3A/A	1325-00-994-3061 (E182)	103	64.014	459,174.00
			<u>469.063</u>	

2. The following is scheduled for the 4th Quarter of FY-79:

<u>NOM</u>	<u>NSN</u>	<u>QTY</u>	<u>TONS</u>
PROJ 120MM WP	1315-LLAM2-0147	9131	410.134
PROJ 155MM S&K WP	1320-00-529-7347 (D550)	13696	710.480
PROJ 155MM S&K WP	1320-00-529-7339 (D550)	37	1.919
GRENADE HAND S&K WP	1330-00-219-8510 (G935)	12198	16.201
GRENADE HAND WP	1330-00-676-2671 (G937)	10877	13.536
GRENADE RIFLE M19A1	1330-00-028-5886 (H030)	2622	5.747
GRENADE RIFLE M19A1	1330-00-028-5863	7191	15.760
RKT 3.5" S&K WP	1340-00-028-6093 (H602)	137040	1365.817
WARHEAD 2.75" S&K WP	1340-00-782-5848 (H355)	583	3.227
CBU 3A/A	1325-00-994-3061 (E182)	799	496.579
CBU 3A/A	1325-00-868-2631 (E182)	945	568.418
FIN ASSY MKU 499/B	1325-00-928-7588	185	3.064
CTG CASE M88H1	1325-00-854-6760	10257	30.771
CNTR FER M306	8140-00-827-6249	20066	55.182
EX WD F/4306 CNTR	8140-00-827-6256	10033	125.413
EX WD F/105MM W/FIBER CNTR	8140-00-857-2938	1590	47.011
EX WD F/81MM	8140-00-495-0468	92	1.860
CONTAINER EMPTY M13A2	8140-00-864-3221	263	2.394
EX WIREBOUND W/ENDS F/M19	8140-00-891-6322	73	.110
BOMB FIRE BLU 27E/B	1325-00-451-5431 (E157)	305	47.775
DISPENSER ACFTX M25	060020500076Y	3	1.038
DISPENSER CBU 24/B W/XM51	060020860076Y	3	.023
DISPENSER BOMB CBU 29/B	1325-00-933-4955 (E178)	1	.585
DISPENSER BOMB	1325-00-809-2566 (E174)	1	.293

FOR THE COMMANDER:

TOTAL TONS 3922.837

  
 JEFFREY T. WIESSNER  
 Chief, Mission Division

Inch 11<sup>3</sup>

New Mexico Health and Social Services Board  
P.L.R.A. Building  
P. O. Box 2348  
Santa Fe, New Mexico 87501

May 26, 1971

AIR QUALITY CONTROL REGULATION

Regulation Number 301 of the Ambient Air Quality Standards and Air Quality Control Regulations adopted by the New Mexico Health and Social Services Board on January 23, 1970, is amended to read:

\*301. Regulation to Control Open Burning

A. Except as otherwise provided in this regulation, no person shall permit, cause, suffer or allow open burning.

B.

1. Open burning is permitted for recreational and ceremonial purposes, for barbecuing, for heating purposes in fireplaces, for the non-commercial cooking of food for human consumption and for warming by small wood fires at construction sites.

2. Open burning of natural gas is permitted at gasoline plants and compressor stations and when used or produced in drilling, completion and workover operations on oil and gas wells when necessary to avoid serious hazard to safety.

3. Open burning of explosive materials is permitted where the transportation of such materials to other facilities could be dangerous.

C. Subject to the conditions contained in Subsection E, open burning of refuse is permitted in communities having:

1. a population of less than 3000; and

2. no public refuse collection service or the economic means of obtaining or establishing one.

Subsection C does not apply to any kind of salvage operation or to any person to whom a collection service is available.

D. Subject to the conditions contained in Subsection E, open burning is permitted for the following purposes:

1. disposal of fully dried tumbleweeds; and

jm/4/74

1000 114



2. agricultural management, excluding timber, directly related to the growing or harvesting of crops.

E. Any open burning permitted under Subsections C and D must be maintained under the following conditions:

1. the emission of smoke shall not be allowed to pass onto or across a public road or landing strip such that a hazard is created by impairment of visibility;
2. no natural or synthetic rubber or petroleum products may be burned. For the purpose of frost control in agricultural operations, natural petroleum products may be burned;
3. care must be taken to minimize the amount of dirt on the material being burned;
4. all burning, except agricultural burning, must take place between the hours of 10:00 a.m. and 4:00 p.m.;
5. the material to be burned must be as dry as possible; and
6. the wind direction at the site of agricultural burning must be such that the smoke will generally be carried away from areas of human habitation.

F. Subject to whatever conditions the department may impose, open burning is permitted for the following purposes when a permit is obtained from the department: weed abatement; prevention of fire hazards; disposal of dangerous materials; instruction and training of bona fide fire-fighting and fire rescue personnel; civil defense; conservation; game management; disease and pest control; land clearance for highway construction; forestry management; control of vegetation in irrigation ditches and canals; clearance and maintenance of watercourses and flood control channels to eliminate flood hazards; disposal of hydrocarbons spilled or lost from pipeline breaks or other transport failure; and other special circumstances.


G. A permit to burn shall not be issued if the department determines that:

1. a practical alternative to burning exists;
2. the health or welfare of any other person may be detrimentally affected; or
3. ambient air quality of other property may be detrimentally affected.

H. Any person seeking a permit to open burn shall do so by submitting a request to the Air Quality Control Unit of the department. The department may require the requestor to submit his request in writing and any or all of the following information:

1. the requestor's name, address and telephone number;
2. the location where the burning is to be conducted;
3. the type and quantity of material to be burned;
4. the date when the burning is to be conducted;
5. the methods that will be followed to ignite, maintain and control the burning;
6. reasons why the requestor believes the burning is necessary;  
and
7. the alternatives to burning and the reasons why the requestor believes them not to be feasible."

I hereby certify that the above amended Air Quality Control Regulation Number 301 was adopted by the New Mexico Health and Social Services Board on May 25, 1971

  
Richard W. Heim  
Executive Director  
Health and Social Services Department

BURN PERMIT REQUEST

1. Requestor's name: Fort Wingate Depot Activity

Address: 10 miles east of Gallup on I-40

P.O. Gallup, NM 87301 Telephone No.: 863-6891, Ext 301

2. Reasons why requestor believes the burning is necessary: Some types of hazardous material (explosives) must be burned for disposal.

3. Alternatives to burning and reasons why requestor believes them not to be feasible: Most of the hazardous material (explosives) must be detonated for disposal.

4. Location where burning is to be conducted: Demolition Area, 5 miles south from Administrative Area, Fort Wingate Depot Activity.

5. Type and quantity of material to be burned: Department of Defense Hazardous Explosives (approximately 2150 tons for this period).

6. Date(s) when burning is to be conducted: See remarks below.  
January 1979 through June 1979

Date by when all burning is to be completed: Approximately 30 June 1979

7. Method of ignition: Safety igniter/safety matches Method for maintaining and controlling burn: FWDA Fire Department is on hand.

8. Remarks:  
Due to weather condition and the availability of demilitarization funds, specific dates cannot be determined at this time. EIA office in Gallup will be informed of actual dates by telephone.

APPROVED BY: Robert Trivitt  
NM EIA Office, Gallup, NM

DATE: 21 Dec '78  
(722-4160)

Incl 115

BURN PERMIT REQUEST

1. Requestor's name: Fort Wingate Depot Activity  
Address: 10 miles east of Gallup on I-40  
P. O. Gallup, NM 87301 Telephone No.: 488-5411, Ext 301
2. Reasons why requestor believes the burning is necessary: Some types of hazardous material (explosives) must be burned for disposal.
3. Alternatives to burning and reasons why requestor believes them not to be feasible: Most of the hazardous material (explosives) must be detonated for disposal.
4. Location where burning is to be conducted: Demolition Area, 5 miles south from Administrative Area, Fort Wingate Depot Activity.
5. Type and quantity of material to be burned: Department of Defense Hazardous Explosives (approximately 2150 tons for this period).
6. Date(s) when burning is to be conducted: See remarks below.  
July 1979 through December 1979  
Date by when all burning is to be completed: Approximately 31 Dec 79
7. Method of ignition: Safety igniter/ safety matches Method for maintaining and controlling burn: FWDA Fire Department is on hand.
8. Remarks:  
Due to weather condition and the availability of demilitarization funds, specific dates cannot be determined at this time. EIA office in Gallup will be informed of actual dates by telephone.

APPROVED BY:

Robert Trivisio  
NM EIA Office, Gallup, NM

DATE:

12 JUNE '79

JF

SDSTE-SEF

Mr. Paul Martinez  
Environmental Improvement Division  
Air Quality Bureau  
P. O. Box 968  
Santa Fe, NM 87503

Dear Mr. Martinez:

We have been instructed by the Department of the Army to meet with you to discuss open burning and detonation of conventional munitions at Fort Wingate Depot Activity.

Mr. Larry Fisher, Environmental Coordinator, and Mr. Barrie Vernon, Chief Counsel for the Tooele Army Depot Complex (which includes Fort Wingate Depot Activity), and a representative from Fort Wingate Depot Activity, would like to meet with you in your office on 19 March 1980 at 9:00 a.m.

I would appreciate a prompt reply confirming these arrangements in order that their schedule can be finalized.

If you have any questions, feel free to contact Mr. Fisher, phone (801) 833-2891.

Sincerely,

JERRY K. PATTERSON  
Colonel, OrdC  
Commanding

CF:  
Chief Counsel, TEAD  
Cdr, FWDA, ATTN: Mr. Adrian Bond

SDSTE-SEF

MEMORANDUM FOR RECORD: Mr. Fisher, Ext 2891

ch

SUMMARY OR BASIS FOR ACTION: Self-explanatory.

ACTION AND COORDINATION:

Chief, Engineering Branch, J. RAYMOND JOHNSON, Ext 2891 (Concur )  
16 Jan 80

Chief, Depot Facilities Division, DENNIS E. BINGHAM, Ext 2115 (Concur )  
16 Jan 80

Director for Services, MERLIN E. PETERSON, Ext 2414 (Concur )

APPLICATION FOR AN OPEN BURNING PERMIT

Name of Applicant Ft. Wingate Depot Activity Telephone 198-1411 Ext. 50

Address 10 miles east of Gallup on I-40, Gallup, New Mexico 87301

Date(s) burning requested January, 1980 - June 1980

Exact location and direction to site Demolition Area, 5 miles south from administrative area, Ft. Wingate Depot Activity

Type and quantity of material to be burned Dept. of Defense hazardous explosives (Aprox. 1496 tons)

Method of ignition and how burning will be maintained and controlled Ignited with safety igniter/safety matches controlled by Ft. Wingate Depot Activity Fire Department

Why is burning necessary? Some types of hazardous material (explosives) must be burned for disposal

List alternatives to burning and reasons why alternatives to burning are not feasible Most of the hazardous material (explosives) must be detonated for disposal.

I herewith make application to the HED Environmental Improvement Division for an open-burning permit under the requirements of Air Quality Control Regulation 301, Sub-section F. I agree to meet all conditions set forth by the Environmental Improvement Division

Signed [Signature] Applicant Date 17 Jan 80

This application has been received by the HED Environmental Improvement Division and is APPROVED DENIED for the following reasons:

This permit is good only between January, 1980 thru June, 1980 and is subject to the following conditions:

- 1. All burning must take place during the time period of three hours after sunrise to one hour before sunset.
2. The wind direction at the site of burning must be such that the smoke will generally be carried away from public roads and areas of human habitation.
3. All burning will cease when atmospheric conditions are such that an air stagnation advisory is issued for your area by the U.S. Weather Service.
4. All material to be burned shall be as dry as possible and amount of dirt must be minimized on material being burned.
5. No natural or synthetic rubber products or petroleum products shall be burned.
6. All applicable restrictions, codes and ordinances (e.g., fire codes or ordinances), whether temporary or permanent, of other governmental bodies must be complied with.
7. Other conditions:

The Division reserves the right to cancel this permit at any time if the public interest so warrants it. If such action occurs, an alternative method of disposal must be used. The holder of this permit is therefore cautioned and charged that he/she, and he/she alone, assumes full responsibility to exercise the utmost care and judgment before setting any fires. The Environmental Improvement Division hereby disclaims any and all liability of itself or it's agents that might be incurred by petitioner's acts.

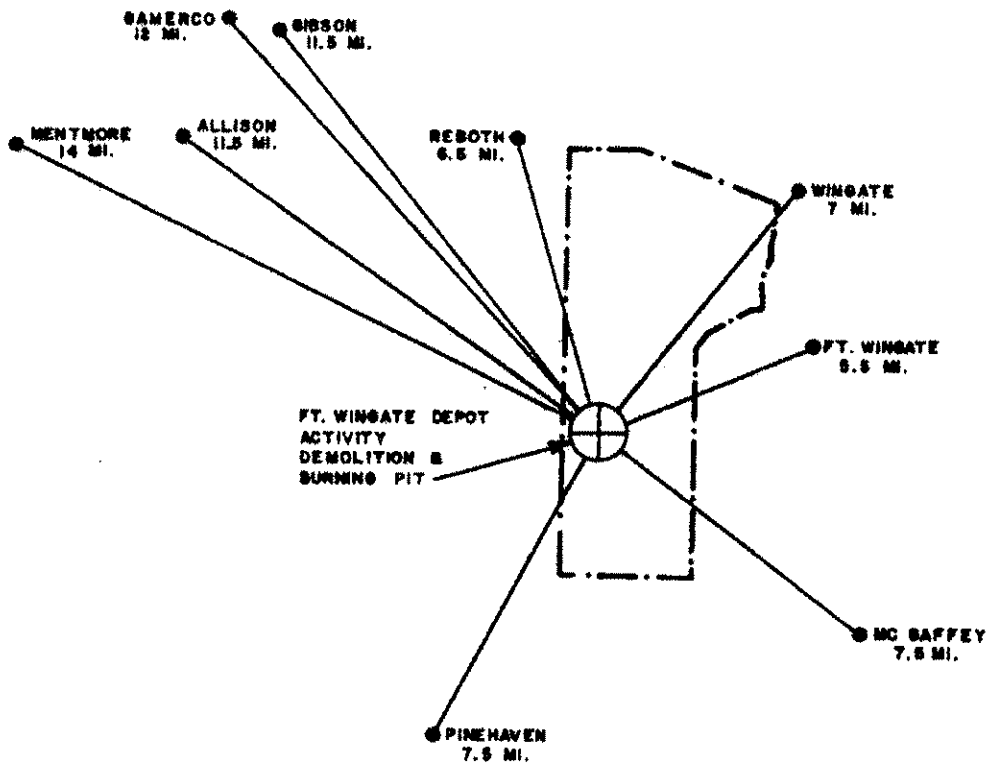
Signed [Signature] Name and Title Dist. No. 1 Date 18 Jan '80

March 19, 1980 New Mexico Meeting

Barrie A. Vernon	Ft. Wingate Depot Activity, Gallup
MAJ ROBERT MARCOTTE	CDR FT WINGATE DEPOT
CURTIS A BOND	USA ENVIRONMENTAL HYGIENE AGENCY
LARRY FISHER	FT WINGATE DEPOT (TOOLIE, UT)
MAJ. DAVID J. WARNER	USA ENVIRONMENTAL HYGIENE AGENCY
Paul Marting	EID Air Quality
Raymond R. Sisneros	EID Hazardous Waste
J. David Duen	EID Air Quality

DO Box 968





PROXIMITY MAP

FT. WINGATE DEPOT ACTIVITY

*file* 314

DEMILITARIZATION

at

FORT WINGATE DEPOT ACTIVITY

4506 3507

## Introduction

One of the major ammunition functions carried out at Ft Wingate Depot Activity has been the demilitarization of outdated or defective ammunition. Located as it is, away from large population centers and on the fringe of the Zuni Mountains, Ft Wingate Depot Activity is one of only a handful of Army installations in the United States where large scale, regularly scheduled explosive demilitarization can take place. Although the winter seasons generally inhibits demil activity due to snowfall, the demil "season," extending roughly from April through September, consists of clear days with high cloud ceilings and generally favorable wind conditions.

## History

Ammunition demilitarization at Ft Wingate Depot Activity has been an ongoing activity since the establishment of the installation in 1942. Detailed records indicating items and tonnages demiled are available from 1955. Prior to 1950, demilitarization was done by detonation or burning due to a lack of alternate facilities, but in the early 1950's a washout plant and deactivation furnace (popping plant) were constructed for the purpose of salvaging the ammunition's metal parts. These remained in operation until the late 1960's, when both workload decrease and economic considerations dictated that demil by detonation was a more practical method. Although the disassembly, washout, and deactivation facilities remain, substantial costs are involved in returning them to operation. (Figure No. 1)

## Current Status

At the present time, demil activities at Ft Wingate Depot Activity are conducted at the southern extremity of the depot in a geological formation known as "Fenced Up Horse Valley." It is located approximately five miles south of the administrative area and is formed by a high sandstone ridge on the west, known as a "hogback" and somewhat lower wooded hills to the east. Figures No. 2, 3 and 4 show several views of the demil area.

This particular area of land is well suited to demilitarization by detonation in other than the winter months. It is well drained and dry and devoid of heavy vegetation. It is narrow enough to contain fragmentation and direct noise and air blasts mostly toward the north and south, away from populated areas, yet wide enough to facilitate the equipment necessary to unload and arrange the items for demil and to maintain adequate separation between "shots."

FORM 8056

FT WINGATE DEPOT ACTIVITY  
CONVENTIONAL AMMUNITION DEMILITARIZATION  
FACILITIES AND CAPABILITIES

<u>DISASSEMBLY FACILITIES</u>	<u>WASHOUT</u>	<u>DEACTIVATION FURNACE</u>	<u>DETONATION</u>	<u>OPEN BURNING</u>
Bldg 528 - 21,644 sq. ft. center substantial dividing wall with operational bays. Power conveyors. APE disassembly and breakdown equipment (Pull-apart and depriming machines - no debanding machine).	APE 1300 Plant w/o water treatment system. Old design requires refurbishing and operational checkout; est cost \$127,500. Requires water treatment and charcoal filter system; est cost \$310,000	APE 1236 Furnace System requires 1276 Air Pollution System; est cost \$120,000.	13 detonation sites Restrictions: 5,000 lbs above ground 10,000 lbs below ground	2 burning sites No burning cages Restrictions: 10,000 lbs

Fig. 1



# FT WINGATE DEPOT ACTIVITY DEMILITARIZATION AREA

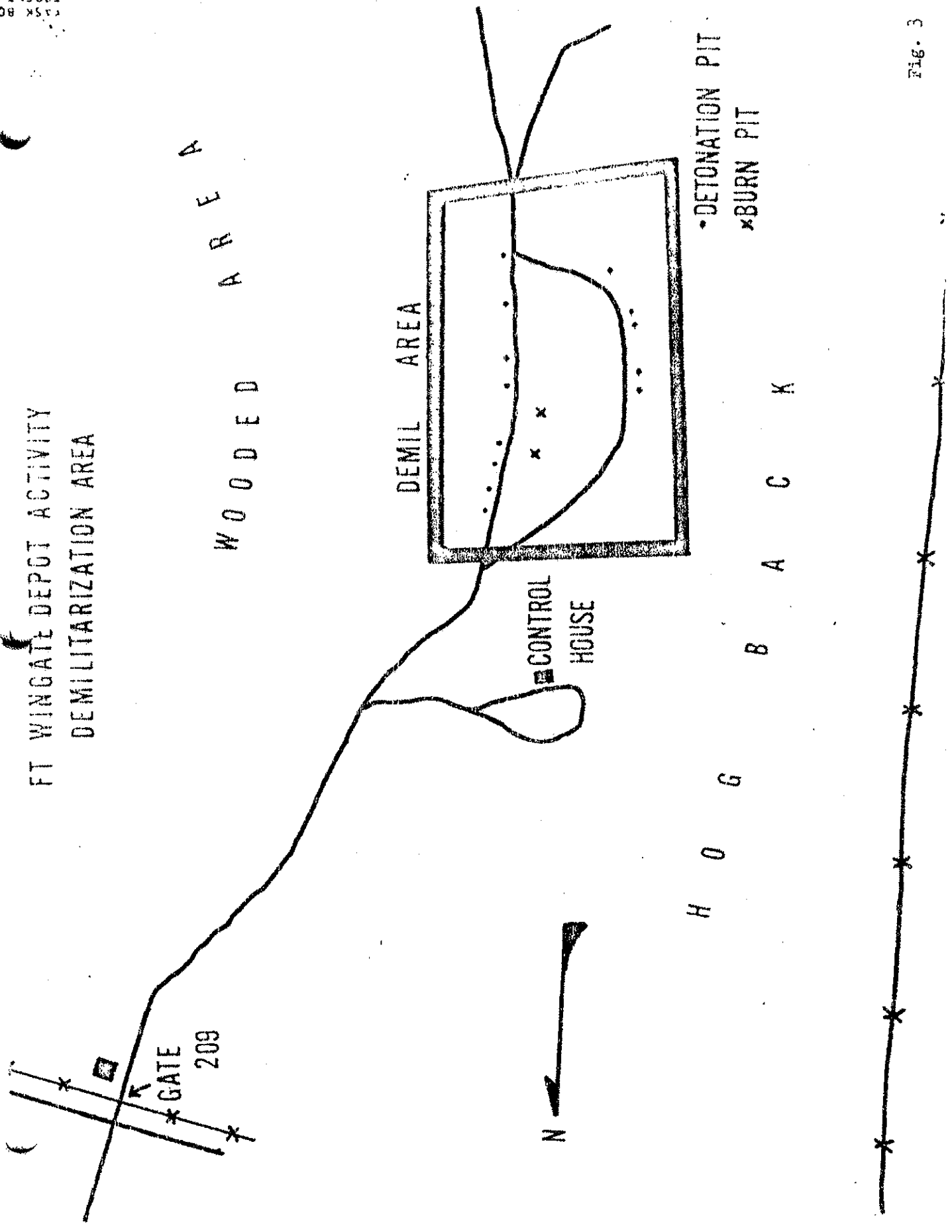


Fig. 3

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CROSS SECTION

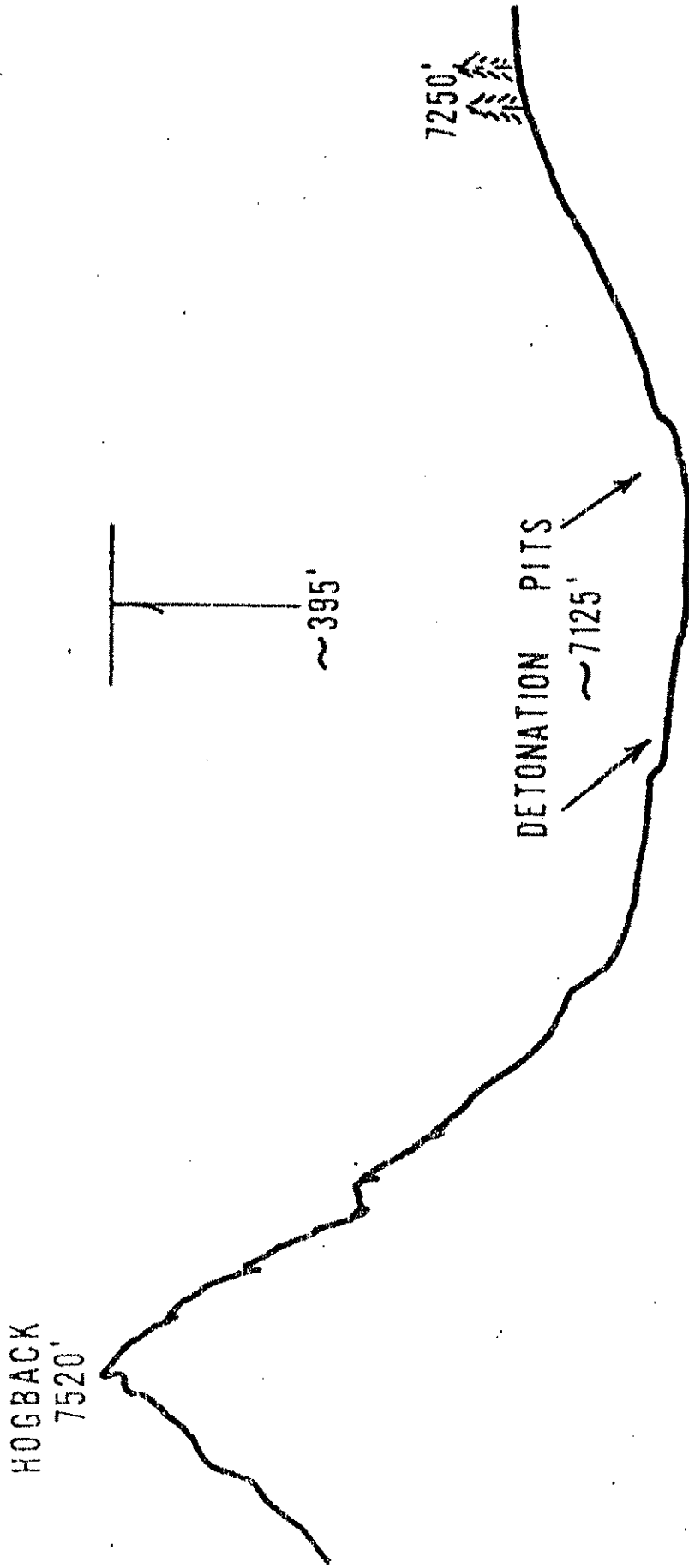


Fig. 4

Current explosive weights detonated at Ft Wingate Depot Activity are based on guidance contained in "Measurements of Air and Ground Shock Disturbances Arising from Demolition Activities at Wingate Ordnance Depot." Known as the "Utah Study" this document was prepared by the Explosive Research Group of the University of Utah operating under a Department of Army contract to determine the validity of complaints by residents near various Army depots where demolition activities took place. Surveys at Ft Wingate Depot Activity occurred in 1956 and 1957, and the recommendations which followed are still observed today. Basically, the surveys indicated that explosive charges (NEW) of 5,000 pounds on the surface and 10,000 pounds buried under 15 feet of earth could be detonated without substantial danger to structures on inhabited areas near the depot boundaries. The study also indicated weather conditions under which detonation should take place or be postponed.

Additional restrictions are placed on Ft Wingate Depot Activity detonations by the Federal Aviation Administration through its regional representative at Fort Worth, TX. Effective 30 Oct 1977, this FAA authorization defines the location of the Ft Wingate Depot Activity demil area, the acceptable cloud ceiling on days detonations are scheduled, and the safety and coordination restraints required between Ft Wingate Depot Activity and the FAA office at Gallup's Municipal Airport. This letter of authorization is attached as Inclosure 1.

Prior to 1977, items demiled at Ft Wingate Depot Activity consisted primarily of projectiles, bombs, and mines, either as detonation of out-dated stocks or as a by-product of disassembly for various scrap or reclamation purposes, e.g., the disassembly of 76MM HE rounds to reclaim propellant and brass cartridge cases. Since then, however, demilitarization has consisted almost wholly of the destruction of obsolete cluster bomb units (CBU's) and assorted bomb live unit (BLU) submunitions. Specific types of CBU's destroyed at Ft Wingate Depot Activity have included CBU-1A/A, CBU-2/A, CBU-2A/A, CBU-2C/A, CBU-3/A and CBU 3A/A.

Since 1977, CBU detonation has accounted for 94 per cent of the tonnage demiled at Ft Wingate Depot Activity. Figure 5 gives a breakdown of CBU demil vs. total tons demiled since 1977. Figure 6 shows detailed demil production for FY-79.

Demilitarization at Ft Wingate Depot Activity does encounter some problems. The Mission Division, which is responsible for the conduct of the demil program, is also responsible for all ammunition shipments, receipts, rewarehousing, and inventories. Presently, the total field workforce, including supervisor, consists of 13 men. Because of this, operations concurrent with demil activities are difficult and sometimes impossible. Nine men are required to complete a full demil production day of 60 CBU's. This leaves only four men for other operations, not taking into account annual or sick leave. Since shipping and receiving take priority over demil, demil production has to be curtailed, partly or wholly, on those days when several vehicles need to be loaded or unloaded. Several times during FY-79, large rail shipments caused several consecutive days of no demil production. Fortunately, little demil production was lost because of weather during August and September, months when Ft Wingate Depot Activity can normally expect heavy rains.



# PERCENTAGE OF CBU DEMIL TO TOTAL DEMIL

FY 77-79

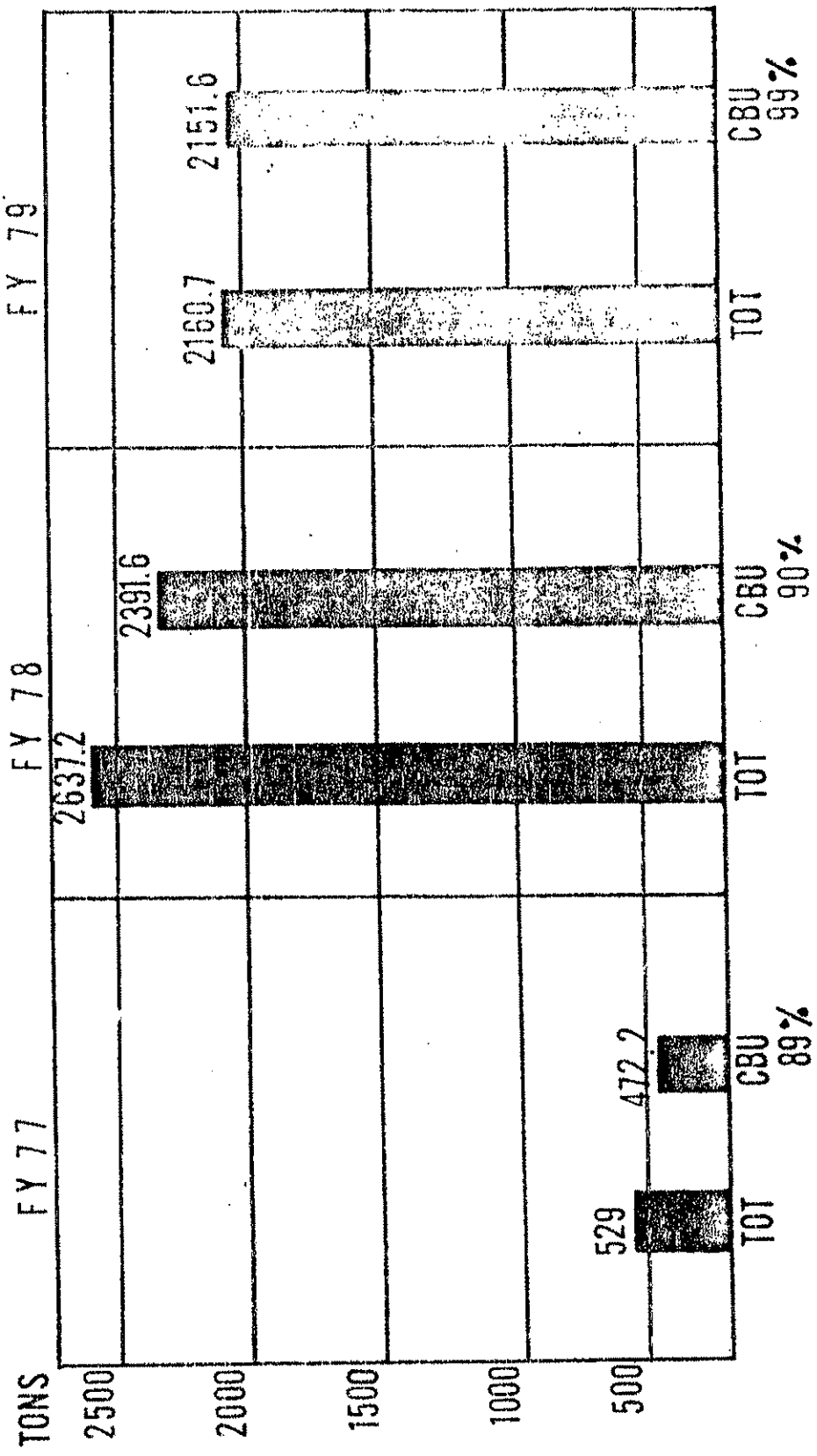


Fig. 5

100LE ARM  
NSX HCSF

FORT WINGATE DEPOT ACTIVITY DEMILITARIZATION - FY 1979

<u>NOMENCLATURE</u>	<u>NSN</u>	<u>QTY</u>	<u>TONS</u>	<u>METHOD</u>
Prop M7 F/3.5"	1340002202051	7632	5.877	Burn
Gasket Rubber F/M13	1320004205135	3401	.174	Burn
Signal Kit Personnel AP	1370009216172(L116)	9	.004	Burn
			6.055	
M1 Delay Plunger Assy	1390000693070	2502	.267	Detonation
Ctg 40MM HE-T	1310005420385(B962)	321	1.070	Detonation
Lug Suspension Bomb	1325001164452	50	.023	Detonation
Bottom Closing Screw Assy	1370000772138	5040	.023	Detonation
Bomb Frag BLU-26B	1325100113228	93	.052	Detonation
Bomb Frag BLU-E/B	060012000076Y	216	.240	Detonation
Bomb Frag BLU-63/B	132500X786027	1349	.858	Detonation
Bomb BLU 7A/B	060003880076Y	209	.150	Detonation
Bomb BLU 7A/B	060003880176Y	416	.300	Detonation
Dispenser Bomb CEU-1A/A	1325004465367(E180)	528	343.728	Detonation
Dispenser Bomb CBU-2A/A	1325009927122(E181)	89	61.321	Detonation
Dispenser Bomb CEU-3/A	1325009943061(E182)	953	592.290	Detonation
Dispenser Bomb CBU-3A/A	1325008682631(E182)	1905	1145.857	Detonation
Dispenser Bomb CBU-2/A	1325007391741(E181)	1	.632	Detonation
Dispenser ACFTX M25	060020500076Y	3	1.038	Detonation
Dispenser CBU 24/B	060020860076Y	3	.023	Detonation
Dispenser Bomb CBU 29/B	1325009334955(E178)	1	.585	Detonation
Dispenser Bomb	1325008092566(E174)	2	.293	Detonation
Dispenser Bomb 58T1	1325001823301BY20	1	.482	Detonation
Dispenser and Mine	1345000898543(K281)	2	1.080	Detonation
Dispenser Bomb CBU-58	1325004772058(E803)	8	4.320	Detonation
		TOTAL	2154.632	
		GRAND TOTAL	2160.687	

Fig. 6

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The small mission field force at Ft Wingate Depot Activity also creates costing problems. Since only 13 workers are charged as direct labor, the AIF Rate at Ft Wingate Depot Activity is \$68 per man-hour in PE 728012 (Demil), and \$71.88 per man hour in PE 721111 (Supply). This results in an average cost per CBU round demiled of over \$81, making Ft Wingate Depot Activity uncompetitive when compared to other DESCOM installations. This leads to less programmed workload (tons demiled in FY-79 were 476.5 less than in FY-78 even though the authorized workload was completed), which leads to less production, a resulting temptation to reduce the workforce, and thus fewer direct labor employees, creating a higher AIF Rate.

The small mission work force creates even higher costs when involved in demil operations requiring disassembly. Depending on the specific job, each disassembly step must be done in total for the entire workload and backlogged in storage until the next step in the process can be prepared. Then the whole quantity is run through the next step, re-stored, and the following operation is readied. Such multiple handling of an item for a process normally handled in continuous successive steps by a larger work force decreases production and increases costs.

One recent problem has surfaced which may affect the future of demilitarization at Ft Wingate Depot Activity. In late August 1979, Ft Wingate Depot Activity was notified that its demolition activities may have been responsible for property damage (broken windows) at a residence about three miles west of the demil, near the Sundance Coal Mine. (Figure 2) Ft Wingate Depot Activity and Tooele Army Depot personnel monitored the effects of demil operations at the residence on 4 Sep 79, and, although a disturbance was felt, no damage occurred. However, the Commander, Ft Wingate Depot Activity, directed that Ft Wingate personnel monitor the effects of demil at the residence each day until demil was completed. On 6 Sep 79, the detonations did cause a broken window at the residence. Subsequently, the demil charges were reduced (from 15 CBU's per shot to 11, a decrease of NEW from approximately 3,350 pounds to approximately 2,500 pounds) and no further damage occurred. A damage claim for repairs is being processed by the Staff Judge Advocate's Office at White Sands Missile Range.

### Future Activities

In light of claims against the government for damage caused by detonations, the future of explosive demil at Ft Wingate Depot Activity is uncertain. While certain measures such as explosive weight reduction or burial of the charges are feasible, the consequent decrease in production and increase in cost per round may make demil detonation here less than cost effective.

Other considerations for the future of demil at Ft Wingate Depot Activity concern forecasted workload and the presence of 2,543 tons of white phosphorous filled munitions stored in the IIP (demil) account. At present, DESCOM forecasted workload and Ft Wingate Depot Activity's submitted IOB for FY-80 have planned for 4,300 tons of demil work using

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5,382 planned man-hours at a cost of \$366,003. However, the items to be demiled are unknown and Ft Wingate Depot Activity has, on hand, only 72.6 tons of miscellaneous demil work scheduled for the burning grounds during FY-80 (Figure 7).

The WP munitions present a different outlook. Stored at Ft Wingate Depot Activity for demil since 1977, these items (Figure 8) presently await the construction of a phosphorous pentoxide plant which can safely and cleanly dispose of the munitions while creating a saleable by-product for the government. Such a plant is clearly preferable to the air and ground pollution the detonation of these munitions would cause, but no forecast of plant construction is available. Consequently, these items are stored indefinitely against the demil account with no realistic disposition having been formulated.

BURNING GROUNDS FY--1980



<u>NOMENCLATURE</u>	<u>NSN</u>	<u>QTY</u>	<u>TCNS</u>
Cntr Fiber M306	8140008276249	20066	55.182
Cntr Fiber F/105	8140008572991	3180	17.490
		TOTAL	72.672

ASK BSR  
1998

WP MUNITIONS - FY \_\_\_\_\_

<u>NOMENCLATURE</u>	<u>NSN</u>	<u>QTY</u>	<u>TONS</u>
Proj 120MM WP	131511AM20147	9131	410.134
Proj 155MM SMK WP	1320005297347(D550)	13696	710.480
Proj 155MM SMK WP	1320005297339(D550)	37	1.919
Grenade Hd WP	1330006762671(G937)	70877	13.936
Grenade Rifle M19A1	1330000286886(H030)	2622	5.747
Grenade Rifle M19A1	1330000285863	7191	15.760
Grenade Hd SMK WP	1330002198510(G935)	12198	16.201
Warhead 2.75" SMK WP	1340007825848(H855)	583	3.227
RKT 3.5" SMK WP	1340000286093(H602)	137040	<u>1365.817</u>
		TOTAL	2542.821

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DEPARTMENT OF THE ARMY  
REGIONAL REPRESENTATIVE  
FEDERAL AVIATION ADMINISTRATION, SOUTHWEST REGION  
P. O. BOX 1689, FORT WORTH, TEXAS 76101

NOV 0 1977

CCQ-ATC-SW


31 October 1977

SUBJECT: Fort Wingate Controlled Firing Area

Commander  
Fort Wingate Army Depot  
Gallup, NM 87301

1. Attached at Inclosure 1 is the Federal Aviation Administration letter of authorization for the Fort Wingate Controlled Firing Area. Activation of the area is predicated on the conditions and limitations listed thereon.
2. This authorization supersedes all previous correspondence concerning the controlled firing area.

1 Incl  
as

  
WALLACE R. NAPIER  
LTC ARMOR  
DA Regional Representative

Copy furnished:  
Cdr, Tooele Army Depot  
Cdr, DARCOM

*Jcl 1*

FEDERAL AVIATION ADMINISTRATION

3024  
1571

DATE:

OCT 28 1977

SOUTHWEST REGION

IN REPLY  
REFER TO:

ASW-535

P. O. BOX 3489

FORT WORTH, TEXAS 76101



SUBJECT:

Fort Wingate Controlled Firing Area

FROM:

Chief, Airspace and Procedures Branch, ASW-530

TO:

ASW-902

This letter is authorization for the continuation of the controlled firing area (demolition area) operated by the Fort Wingate Depot Activity (U.S. Army), Gallup, New Mexico, as set forth below.

Demolition of munitions at the Fort Wingate Depot Demolition Range, Gallup, New Mexico, is approved under the following conditions.

a. Location and description of the demolition area:

Beginning at latitude 35°28' N., longitude 108°38' W.; direct to latitude 35°28' N., longitude 108°36' W.; direct to latitude 35°26' N., longitude 108°36' W.; direct to latitude 35°26' N., longitude 108°38' W.; direct to point of beginning.

b. Altitude:

From the surface to 10,000 feet MSL.

c. Scheduling/operating agency:

The controlled firing area is scheduled and operated by the Commander, Fort Wingate Depot Activity (U.S. Army), Gallup, NM 87301.

d. Time of activities:

Demolition activities may be scheduled between 1200 and 1600 hours local time, Monday through Friday.

e. Effective date:

The effective date of this authorization is October 30, 1977.

f. Safety precautions and control:

(1) A safety officer and FAA coordinator shall be appointed at the depot activity.

*ASW-530*



(2) Visual surveillance of the area shall be maintained immediately prior to and during the time that demolition activity is in progress. The sky surrounding the area shall be scanned prior to beginning demolition activities to ensure that the area is clear of all low-flying aircraft. Demolition activities shall cease immediately upon observation of low-flying aircraft which may enter the controlled firing area. Demolition activities shall not be resumed until the area is cleared.

(3) Communications:

Activation of the controlled firing area is predicated upon continuous effective communication between the on-site observer/s and the safety officer.

(4) Weather conditions:

Demolition operations will not be conducted unless the ceiling is greater than 2,400 feet and debris from the demolition activity will not penetrate any cloud formation. Visibility will be sufficient to maintain visual surveillance for a distance of five miles in all directions.

g. Notification:

Notification to the Flight Service Station, Gallup, New Mexico shall be accomplished at least 12 hours and 2 hours prior to the demolition activities. The following information shall be provided the Gallup FSS in sufficient time to permit an airman's advisory to be transmitted at least 12 hours prior to scheduled operations.

- (1) Location of the area.
- (2) Time of use.
- (3) Activity to be conducted.
- (4) Altitudes.
- (5) User.

RALPH L. FRICK

- cc:
- AAT-200 (w/true cy of orig document)
  - ASW-502
  - ASW-540
  - ASW-900
  - ASW-901
  - Gallup FSS
  - Albuquerque Center

MEMORANDUM FOR RECORD

SUBJECT: Fort Wingate Depot Activity, Parcel 3, Potential Burning Ground SWMU-74

1. The site is identified as a proposed burning ground in the Archive Search Report (ASR) in Table 1, section 7.3.16. It is also identified as Area 16, or Site 16, and Proposed Burning Ground on Attachment 2 and 12 in the RCRA Permit.
2. On 18 October 2006, personnel from the Army Corps of Engineers Fort Worth District, along with Mr. Mark Patterson, BRAC Environmental Coordinator for Fort Wingate Depot Activity toured the site. Corps personnel included Mr. David Holladay, OE Safety Specialist, Mr. Mike Scoville, Mr. Steven Smith and Mr. Eric Kirwan.
3. Corps personnel located the site utilizing global positioning system and inspected the area and found no trace of use as a burning ground. There was no evidence of any former pits, staining or scorching of the earth. The site had been cleared of vegetation, years previously. One piece of munitions debris was located near the site. Mr. Holladay is highly confident that that the site may have been prepared for use but was never opened as a burning ground.
4. This memorandum serves to document the findings of the site inspection. The point of contact for this matter is Mr. David L Holladay at (817) 886-1852.

CC:  
FORT WINGATE ARMY DEPOT  
P.O. Box 268  
Fort Wingate, NM  
Attn: MARK PATTERSON