NBC MISSION ANALYSIS

82d Airborne Division

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HIGHER HQs MISSION	XVIII Abn Corps minimizes the effects of NORTHLAND CW employment and BW events via battle staff vulnerability assessments, NBC recon and decon operations, while employing smoke to achieve deception and force protection.
FACTS	❑ There has been no previous use of WMD in Corps AO to date. Corps NBC THREATCON is: Nuclear = White; Biological = Green; Chemical = Green (W/G/G) ❑ The enemy has chemical weapons capabilities. ❑ The enemy has Biological Agents (Anthrax, Botulism Toxin) that are not weaponized. ❑ No Nuclear weapons. No industrial radiological hazards have been identified in the ARFOR AO. ❑ The enemy has a wide variety of systems to employ WMD at the operational and tactical levels. - Northland CW agents include RCAs, mustard-blister (HD), blood (AC) and nerve (GB,GD,VX) agents. - Chemical munitions can be delivered by SS-1C,120mm and above artillery systems, to include MRLs as well as by fixed wing aviation. ❑ The enemy has extensive smoke capabilities. ❑ Enemy chemical protection units are found at all echelons. Divisions and higher have chemical protection battalions. Armored forces have Smoke Battalions too. NBC Recon companies are included in Chemical Protection Battalions. An NBC Recon aviation platoon is included in Front Aviation Brigades. ❑ Prevailing winds are along and East-West axis (RFI: Corps Annex states from the south). ❑ Enemy forces are trained and organized to conduct offensive operations in an NBC environment. ❑ Enemy release authority is currently at NCA level. CW Weapons are at Division level. ❑ There are no known Chemical/Radiological/Biological sites in the Division AO (RFI) ❑ Friendly RCAs will not be deployed or used without prior release from the NCA. Included in ROEs. ❑ Smoke generating ordinance, to include white phosphorous (WP) rounds, are authorized for deployment and use. ❑ All flame weapons, including expedient weapons, are authorized for deployment and use. ❑ Enemy Prisoners of War (EPWs) will retain personal items to include protective masks and gear. ❑ Corps MOPP level is 0. ❑ Consumption of Nerve Agent pre-treatment Pyridostigmine (NAPP) is on order of the Corps Commander. ❑ Know indigenous diseases in the Division AO include……(RFI: NONE) ❑ Bio Vaccine Regimen will be started prior to deployment. ❑ The Corps will array the BIDS sensors in Theater ❑ 6th RLT comes manned & equipped to perform operational decon. All CDE and CDE Supplies will be handled by Marine/Navy sources. No organic NBC unit assets. ❑ The Corps 86th CSH has been designated to receive contaminated casualties.
ASSUMPTIONS	❑ The enemy will initiate CW when they perceive a clear advantage to do so. ❑ Use of RCAs may be constructed as the initiation of CW. This differs from XVIII Abn Corps assessment. ❑ Enemy tactical employment of biological weapons (BW) is unlikely as agents are in development and not weaponized. ❑ Enemy Chemical release will likely pass to tactical commands once the Division attempts to expand the lodgment. ❑ Likely enemy CW targets include: HVA - Aviation units, Artillery systems (MRLS and radars); ADA units, Logistics activities; and CPs. ❑ Northland forces will conduct large scale smoke operations; smoke will be uses to conceal counter attack forces and elements that are repositioning. ❑ Friendly Smoke operations will draw enemy SPF/UAVs

	❑ Water supply/resupply will not be a significant logistics issue due to the numerous streams, wadiis, and coastal waters. ❑ Resupply of SGF-2 (fog oil), Graphite, & decontaminants (DS2 and STB) is not a problem. (RFI) ❑ CDE is at 100% in the Division. ❑ Local nationals will ask US forces for NBC protective equipment, casualty assistance, and decon. (RFI) ❑ The attached and assigned NBC assets are sufficient for the mission. ❑ The Division can support the attached Chemical Battalion ❑ There are Corps provided airframes for the Chemical Battalion.
LIMITATIONS **Constraints**	❑ Water for decon operation away from the coast ❑ RCAs may be used, when release has been granted, in defensive military modes to save lives only. ❑ OEG = 50cGy ❑ Must enter Division AO with two sets of CDE per person; One will be with each soldier. One will be palletized in each BSA. ❑ Consumption of NAPP is o/o of Corps Commander ❑ Logistical support of attached Chemical Battalion in zone
RESTRICTIONS	Airframes for attached Chemical Battalion (RFI)
SPECIFIED TASKS	❑ Conduct NBC Recon of MSRs, LSA, and CPs ❑ Locate and report decon sites in Division sector to Corps ❑ Provide updated smoke plans, with matrix and overlay, to Corps NBCC ICW submission of supporting OPORDs. Submit updates/changes to smoke plans as they occur. ❑ BPT support Corps deception plan with smoke assets (RFI) ❑ BPT collect and evacuate BW samples (RFI) ❑ Provide updated NBC Reconnaissance and Surveillance plans to the Corps NBCC ICW submission of supporting OPORDs.
IMPLIED TASKS	❑ BPT collect and evacuate CW samples ❑ Support for local nationals in the form of medical attention (at a minimum) ❑ Provide smoke, NBC recon, and decon support to Corps units operating in our zone.
ESSENTIAL TASKS	❑ Conduct NBC Recon to locate NBC contamination and permit contamination avoidance ❑ Conduct NBC decon to regenerate combat power ❑ Employ smoke to screen HVAs: Aviation, MSRs, MLRS, LSAs, Fire finding Radars, Patriot ADA ❑ Operate the NBCWRS
SHORTFALLS	
AVAILABLE ASSETS	Chemical Troops available: (Organic, attached and OPCON assets) 83 CM BN (Attached) 11 CM CO (S/D) 4 x Dual Purpose Plts; 24x M56 Smk 24 x M17 Sanator 59 CM CO (S/D) 4 x Dual Purpose Plts; 24x M56 Smk 24 x M17 Sanator 101 CM CO (S/D) 4 x Dual Purpose Plts; 24x M56 Smk 24 x M17 Sanator 1/51 CM CO [R] 8 x M93A1 Fox NBCRS 21 CM CO (Abn) 3 x Dual Purpose Plts; 18x M56 Smk 18 x M17 Sanator
CONCLUSIONS (Recommendations)	❑ NBC Forces available are sufficient to complete the task. ❑ CW will seriously hamper Division Operations

NBC IPB: 82d Airborne Division

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DEFINE THE BATTLEFIELD

- ❑ **NBC AREA OF INTEREST/OPERATIONS: GEOGRAPHY, TERRAIN, & WEATHER**
  - ✓ See Appendix 2 (Analysis of Area of Operations to Annex B (Intelligence Estimate) to 82d Abn OPLAN
  - ✓ Two primary regions: Mountainous/Hilly region over 10km away from the coast. Elevation between 150-600m and rugged. Limiting to vehicular traffic. Coastal Plans 1-10km from the coast._ Elevation minimal (x<10m). Some sand dunes and natural obstacles.
  - ✓ Few built up areas. xxxxxxxxxx (Pop=20K) and Xxxxxxxxxx (Pop=200K)
  - ✓ Warm, dry climate. Prevailing winds vary on an East-West axis.
  - ✓ Temperature ranges from lows of 74F to highs of 86F
  - ✓ Water is abundant along the coast. Inland, limited water sources exist. There are several rivers 18m in width, as well as numerous streams & wadiis. Peak discharge period will ensure water in these sources.
- ❑ **POPULATION DEMOGRAPHICS**
  - ✓ The majority of the local population is hostile to US Forces. They have no NBC training an little, if any, protective equipment.
- ❑ **POLITICAL & ECONOMIC FACTORS**
  - ✓ The NORTHLAND government would use CW in their home country. Due to the lack of protection, they would most likely not use CW in NORTHLAND cities. However, the southern areas of NORTHLAND are opposed to the national government.
- ❑ **INFRASTRUCTURES**
- ❑ **INDUSTRIAL & RESEARCH FACILITIES**
  - ✓ No known NBC industrial sites in the ARFOR AO.
  - ✓ There is a CW Storage site on the island of yyyyyyyyy is believed to contain artillery rounds.
- ❑ **HOSPITALS**. There are no known NORTHLAND hospitals in the Division AO. Hospital(s) will likely be found in Xyyyyy (RFI)
- ❑ **RULES OF ENGAGEMENT.**
  - ✓ NORTHLAND release authority at NCA level.
  - ✓ US Nuclear release authority retained at NCA
  - ✓ US RCA authorization is at Corps level.

DESCRIBE THE BATTLEFIELD EFFECTS

- ❑ **TERRAIN & WEATHER EFFECTS:**

Agent	Type	Duration(d)			Downwind Effect (sq km)		
		50F>	51-69F	70<	Cold	Warm	Hot
GB	NPN	2	0.5	.25	3	6	9
GD	SPN	4	2	1.5	3	3	6
VX	PN	7	4	2	3	6	9
HD	P	5	3	2	3	6	9
AC	NP	3h	2.5h	1.5h	3	6	9

  - ✓ There has been no previous use of WMD in Corps AO to date. Corps NBC THREATCON is: Nuclear = White; Biological = Green; Chemical = Green (W/G/G)
  - ✓ Mountainous terrain will funnel, canalize, and concentrate CW clouds along the low ground. Terrain and ground conditions along the coast and in the mountain valleys will favor CW.
- ❑ **WEATHER PREDICTIONS:**
  - ✓ Winds variable on a East - West axis. Average wind speed is 16kts. Precipitation occurs, on average, twice a month. Average Relative Humidity is 82%.
  - ✓ **Most favorable winds speed/direction for CW use is 1800-0800 daily when wind speeds are 4-10kts from the East.**

- ✓ Low visibility due to fog or dust occurs on average 13 Days per month. Terrain in the mountainous regions are favorable for smoke operations. Micro weather effects in the mountains valleys (AA2) will cause smoke to linger and move slowly North-South along the corridor.

EVALUATE THE THREAT

- ❑ **NBC THREATCON:**.
- ❑ Corps NBC THREATCON is White/Green/Green
  - ✓ No nuke capability
  - ✓ Biological agents are being developed but not weaponized (Assessment = unlikely) Chem agents and delivery systems on hand (Assessment = probable).
- ❑ **THREAT FORCES & THEIR CAPABILITIES**
  - ✓ Enemy strength ~40% (D Day); robust artillery and missile systems (Center of Gravity).
  - ✓ Forces oriented toward coast and on port/airfields
  - ✓ Northland Optical/IR/NVG systems are minimal and obsolete. All should be defeated by oil-based obscurants.
- ❑ **DELIVERY SYSTEMS, RANGES, & WMD WEAPONS**: All weapons systems from 120mm through aerial bombs are WMD capable. Primary systems are the BM-22 and 152mm Arty found in AAG and AGRA. NORTHLAND will conduct CW deep strikes with SSMs. See ANNEX N.
- ❑ **ENEMY TROOPS & EQUIPMENT**: Enemy forces are equipped and organized to conduct offensive operations in a CW environment.
  - ✓ At Army level and in each division there are chemical protection battalions consisting of 20 ARS 12U/14 Decon Trucks, 4 DDA-55/66 Decon Trucks, 9 BRDM-rKh NBC Recon Vehicles, and 4 TMS-65 Smoke/Decon systems.
  - ✓ Armored and Mechanized Divisions, in addition to the Chemical Protection Battalion, has a Smoke Generator Battalion consisting of three smoke companies, each equipped with 27 TDA-M Smoke generator systems.
  - ✓ NBC Reconnaissance elements are an integral part on the Chemical Protection Battalions. A helicopter NBC Recon platoon is in Aviation Regiments at the Army level. Chemical Reconnaissance Battalions in the Chemical Brigade at Army level consist if 27 BRDM-rKh NBC Recon systems. These elements will be attached to forward units in contact.
  - ✓ Offensive Delivery Systems include:

System	Range(km)	Agent Capability
2S1(122mm)	15	GB,GD,HD
D30 (122mm)	15	GB,GD,HD
2S3 (152mm)	17	VX,GB,GD,HD
D74 (122mm)	24	GB,GD,HD
2S7 (203mm)	37	VX,GD,HD
2S9 (120mm)	8	GB,GD,HD
2S12 (120mm)	7	GB,GD,HD
2A36 (152mm)	28	VX, GB, GD, HD
2A65 (152mm)	40	VX, GB, GD, HD
G5 (155mm)	30	VX, GB, GD, HD
G6 (155mm)	30	VX, GB, GD, HD
BM21 MLR-122mm	20	VX, GB, GD, HD,AC
9A52 (300mm)	70	VX, GB, GD, HD
WM-80 (283mm)	70	VX, GB, GD, HD
ASTROS II 300mm	60	VX, GB, GD
GCT/AU-F1(155mm)	24	VX, GB, GD, HD
SS-1C (SSM)	300+	VX, GB
AIRCRAFT	300+	VX, GB, GD, HD

  - ✓ SPF and terrorists could be used to employ both CW and BW

	✓ Corps believes CW are postured forward to division level. No activities have been observed at storage sites. ✓ The enemy's front forces are currently at "MOPP Ready". (By our definition) ❑ **ENEMY NBC TRAINING**: The enemy is well trained and prepared for offensive operations in an NBC environment. NORTHLAND will use CW when they perceive a clear advantage to do so in light of political realities. They must weight the possible retaliation of US Forces with nuclear weapons. ❑ **NATIONAL/MILITARY POLICY CONCERNING WMD**: Enemy release authority with NCA. Corps suspects CW weapons are stored at Division ASPs. ❑ **PREVIOUS NBC USE IN THEATER OR HISTORICAL USE:** ✓ Historical use: Operations against IRAQ occurred 0300-0500. Predominately 152mm Artillery or aircraft delivered weapons. ✓ Previous NBC use in Division AO: NONE ❑ **NBC EMPLOYMENT DOCTRINE**: NORTHLAND forces will use a combination of Terrain-oriented and force-oriented attacks to limit the expansion of the lodgment. ✓ Enemy **Chemical** use will be used to block the forward expansion of the lodgment and fix forces, especially at choke points and mountain passes. Non persistent agents will be used on forward forces to disrupt operations and gain local superiority. Persistent agents will defeat penetration of the enemy defenses and disrupt the flow of forces into NORTHLAND. These agents will also focus on disrupting our CSS units critical to sustaining the fight. Persistent deep strikes will attempt block APOE and Logistics bases. Persistent Agents will target lighterage egress areas. An initial chemical attack would be planned to increase the MOPP level and lead to reduced effectiveness as a result of the higher protective level. ✓ Enemy **Smoke** will be extensive and focus on protecting HVAs. Blinding smoke will prevent target acquisition. Decoy smoke will support Maistroika. The enemy has limited IR defeating smoke. ❑ **PROBABLE EMPLOYMENT INDICATORS AND INTELLIGENCE REQUIREMENTS: See FM 3-14 (Appendix D and E) for general indicators. List specific operational intelligence requirements and unique AO specific indicators here.** ✓ Intel Requirements: ✓ When and where will the enemy employ CW? ✓ Will the enemy employ CW against the beachhead/airfield? ✓ Are there CW ASPs with the DAG? AAG? AGRA? ✓ Where are the enemy NBC recon units located? ✓ AO Specific Indicators ✓ Aircraft flying in pairs (NORTHLAND historic use) ✓ Artillery rounds with colored bands Deployment of NORTHLAND NBC Recon units to maneuver units
DETERMINE THE THREAT COAs **(Developed during Wargaming)**	❑ **TEMPLATE PROBABLE NBC TARGET AREAS FOR ALL COAs (P/NP)** ✓ Enemy intent: (1) Prevent the lodgment and substantial forces ashore (more than conventional forces can handle). (2) Cause unacceptable casualties ✓ High Payoff Targets: Patriot, Aviation, MLRS, FA Radar(s), Logistics assets/facilities, ✓ COA-1: (MOST LIKELY COA): Three templated attacks: • Artillery (9A52) delivered persistent (Blister) on AA1 (NBC NAI 1) to choke off maneuver along AA1 and fix the 16th RLT Tank Company from attacking into the flank of the 53rd MRD . Simultaneous Non Persistent Nerve (GB) on AA2 vic troop concentration on OBJ tttttttttttttt. Affect 16th RLT and 3rd Brigade. • Non Persistient Nerve artillery delivered fires continue as part of 53rd MRD c/ATTK. 16th RLT affected. Purpose: Disrupt maneuver forces. • 4xSSM delivered persistent Nerve on Port and Airfield (NBC NAI 2). Purpose: deny the facilities 2xSSM delivered non persistent Nerve (GB) on the city.

	Purpose: (1) propaganda (story: blame attack on US Forces and (2) create a displaced civilian/mass casualty crisis in the town. ❑ **DESIGNATE NBC NAIs & OVERWATCH RESPONSIBILITIES** ✓ Trigger/Decision Point 43TD approaches 16th RLF FLOT ✓ NBC NAI: NBC NAI 1: Choke Point along AA1 NBC NAI 2: Port/Airfield of BANDAR SIRIK ✓ NAI Overwatch Responsibility: 1/1/51 CM[R] ✓ Protective Measures & Mitigating Factors ✓ Decon Site locations: Several sites vicinity of ISB. In NORTHLAND, site in 16th RLT AO. Brigade assets support operational decon.
CONCLUSIONS	

ATTACHED: **NBC Vulnerability**
NBC Attack Risk Analysis
MOPP Analysis