DEPARTMENT OF THE AIR FORCE
12TH COMBAT TRAINING SQUADRON (ACC)
FORT IRWIN, CALIFORNIA 92310

16 January 15

MEMORANDUM FOR BATTLEFIELD WEATHER TEAMS DEPLOYING TO THE NATIONAL TRAINING CENTER

FROM: 12 CTS/DOC
7th St. and Barstow Rd., Bldg 661
Fort Irwin, CA 92310

SUBJECT: Letter of Instruction (LOI) for Battlefield Weather Teams (BWTs) Deploying to the National Training Center (NTC)

CLASSIFICATION: UNCLASSIFIED // FOUO

1. References:
   (a) CJCSI 3810.01D, *Meteorological and Oceanographic Operations*
   (b) Joint Publication 3-59, *Meteorological and Oceanographic Operations*
   (c) Joint Meteorological & Oceanographic (METOC) Handbook
   (d) Air Force Doctrine Document 3-59, *Weather Operations*
   (e) Air Force Instruction 15-114, *Weather Technical Performance Evaluation*
   (f) Air Force Instruction 15-128, *Air Force Weather Roles and Responsibilities*
   (g) Air Force Manual 15-129, *Air and Space Weather Operations – V1, V2, ACC SUP*
   (h) Air Force Instruction 15-157 (AR 115-10), *Weather Support for the U.S. Army*
   (i) Army Regulation (AR) 5-25, *Army Weather Functional Activities*
   (j) 2011 Army Weather Statement of Requirements (SOR)
   (k) FORSCOM Regulation 350-50-1, *Training at the National Training Center*
   (l) NTC Regulation 350-1, *Training at the National Training Center*
   (m) NTC & Fort Irwin Regulation 115-10, *Weather Support Agreement*

2. Purpose. Identify Meteorological and Oceanographic (METOC) rotational training unit (RTU) forces supporting NTC exercises and establish roles, responsibilities, and services provided in accordance with (IAW) referenced guidance on weather operations to enable participating United States Armed Forces and Coalition Nation forces to conduct realistic training in a complex contested environment at the operational and tactical levels of war.

3. Background. The mission of the NTC is to provide a tough, realistic joint and combined arms training focused at the brigade and battalion level, to assist commanders in developing trained, competent leaders and soldiers while identifying unit training deficiencies, providing feedback to improve the force and prepare for success on the future joint battlefield. The NTC provides an extensive training system composed of a well-trained Opposing Forces (OPFOR), skilled Observer, Coach-Trainers (OC/Ts), large land areas, unrestricted ranges, a fully instrumented battlefield, and extensive logistics missions. The training provided at NTC provides a unique opportunity for

combined-arms task forces to reinforce their mission essential task list (METL) training conducted at home station.

4. Personnel Requirements. All members of the rotational Battlefield Weather Team are expected to be able to perform their duties in an austere field environment through the completion of the exercise. Battlefield Weather unit leadership must consider the following prior to selecting Airmen as NTC rotational players:

(a) Medical. IAW FORSCOM Reg 350-50-1 all physical profiles will be reviewed by PCM and unit leadership to determine the deployment readiness of NTC participants. Pregnant Airman will not deploy to the NTC. During the exercise, the rotational Army unit will provide medical support and treatment to injuries and illnesses for Airmen that occur during the NTC rotation. Rotational medical staff will determine if Airmen will be able to be treated and returned to NTC training and if not, the rotational Army unit will coordinate evacuation to home station for any Airmen who cannot return to training.

(b) Personal. Personal issues, such as high-risk for Red Cross Messages, must be considered during the BWT selection process and, if necessary, the Battlefield Weather Unit will be prepared to replace or supplement the rotational BWT should a Red Cross Message occur.

(c) Special Needs. The supported Army unit will be contacted by the Battlefield Weather Unit in order to accommodate any special needs for rotational Airmen (i.e., dietary concerns due to medical or religious restrictions). 12th CTS personnel will not service Airmen's special needs outside of emergency situations as this should be coordinated with the supported Army unit prior to the NTC rotational exercise.

5. Responsibilities of Rotational Battlefield Weather Teams (BWTs)

(a) Coordinate weather and logistical support with rotational Army customer(s) prior to deploying to and redeploying from NTC (i.e., personnel, communications, transportation, etc.) and annotate support in a Memorandum of Agreement (MOA) or Army unit OPORD/FRAGO ANNEX.

(b) Acquire travel orders for NTC exercise through Army chains, acquiring Army group orders or an Army fund site for Defense Travel System (DTS) orders.

(c) Inform 12 CTS/DOC of RTU travel itinerary ASAP, preferably 30 days prior to arrival at NTC.

(d) Request and acquire temporary KQ Identifier with Air Force Weather Agency (AFWA) no later than (NTL) 30 prior to arrival at NTC.

(e) Complete and return the NTC Pre-deployment Survey found on the NTC Weather Homepage (http://www.irwin.army.mil/CommandGroupUnits/Units/OPSGRP/USAFwx/Pages/ForWeatherTeamsDeployingtoNTC.aspx) NLT 30 days prior to arrival at NTC (see Attachment 2).

(f) Secure a Defense Connect Online 2.0 (DCO) account and Air Force Weather Web Services (AF-WEBS) username/password NLT 30 days prior to arrival at NTC.

(g) Provide pertinent RTU personnel, equipment, and Unit Commander's Unit Assessment and training focus (see Attachment 2) and the NTC Roll-Out Card (see Attachment 3) found on the NTC Weather Homepage NLT 14 days prior to arrival at NTC (http://www.irwin.army.mil/CommandGroupUnits/Units/OPSGRP/USAFwx/Pages/ForWeatherTeamsDeployingtoNTC.aspx).

(h) Complete 25th Operational Weather Squadron (OWS) Support Assistance Request (SAR) for unique briefing/tailored product support (as applicable).

(i) Operational check and physically inventory all weather/communication equipment prior to deploying.

(j) Secure M4 & M9 weapons, magazines (and Blank Fire Adapters, as applicable) for all weather personnel (**M4s must be brought for Decisive Action Training Environment rotations**).

(k) Secure gas masks and JLIST equipment (chemical gear) from your supported Army unit for all weather personnel (both simulated and real tear gas will be used during the NTC exercise).

(l) Bring required weather and tactical equipment IAW the RTU Modification Table of Organization and Equipment (MTOE) (see Attachment 3) as determined by Battlefield Weather Squadron/Detachment leadership.

(m) Upon arrival at Fort Irwin, contact the 12 CTS/DOC at DSN: 470-4363/9527 // Commercial (760) 380-4363/9527 and provide them a copy of the RTU MOA and MTOE.

(n) Secure Multiple Integrated Laser Engagement System (MILES) for all BWT personnel/vehicles from NTC Operations Group prior to the start of the exercise.

(o) Provide 24/7 weather support to enable Army commanders and their staffs to make informed decisions based on key weather factors IAW existing regulations. These services may include: route observations, staff weather briefings, mission weather products, weather impact assessments, routine Chemical Downwind Messages (CDMs), electro-optical tactical decision aids, space weather forecasts, etc.

(p) Provide weather information including, but not limited to, flight weather briefings in support of helicopter and Unmanned Aerial Systems (UAS) operations, and tailored weather forecasts for time-sensitive targeting.

(q) Establish and maintain communications with the 25 OWS and Fort Irwin/Bicycle Lake Army Airfield (BLAAF) forecaster via DCO or best available option once established in the box.

(r) Take, record, and disseminate manual observations under the RTU's respective KQ identifier in order to provide eyes forward presence for the 25 OWS and BLAAF forecaster.

(r) In the event of an OWS/Bicycle Lake Army Airfield outage, the rotational Brigade or Division BWT will issue the MOAF and Watches, Warnings and Advisories (WWAs) for NTC IAW AFMAN 15-129v1 (see Attachment 5 &6).

(s) Provide Situational Reports (SITREPs) daily to 12 CTS/DOC while deployed in the NTC Range (see Attachment 9).

(s) Provide written feedback comments and/or After Action Review (AAR) comments (as applicable) to the 12 CTS/DOC NTL 14 days following the end of the rotation.

6. Responsibilities of the 25th Operational Weather Squadron (25 OWS)

(a) Provide a 24-hour Military Operations Area Forecast (MOAF) three times a day during Training Days (TDs) 1-14 (amended as necessary). The MOAF is the controlling forecast and will include a synoptic discussion, forecast for clouds, visibility/present weather, surface/flight winds, hazards, and temperatures (see Attachment 5).

(b) Issue Watches, Warnings and Advisories (WWAs) via the Joint Environmental Toolkit (JET) system for the NTC AO, Goldstone Airstrip and Barstow-Daggett Airport as outlined in Attachment 6.

(c) Conduct a meteorological conference (METCON) with the rotational units and the BLAAF forecaster prior to MOAF and WWA issuance via DCO and/or telephone/email.

7. Responsibilities of the BLAAF Forecasters

(a) Designated "Pseudo-Division SWO" unless a Division BWT deploys with their supported Army unit, in which case the BLAAF Forecaster will be designated the Joint METOC Officer (JMO) for NTC.

(b) Provide local area or DD 175-1 pilot briefs to NTC Flight Detachment (Eagle Team) and 2916th Aviation Battalion pilots and flight crews.

(c) Provide observed WWAs as necessary for Bicycle Lake Army Airfield (see Attachment 6).

(d) Issue 5-day weather planning outlook once a day (see Attachment 7).

(e) Issue NTC Mission Weather Product (MWP) three times daily using the Mission Execution Forecast Process (MEFP) (see Attachment 8).

(f) Provide staff weather support to NTC leadership in the form of: commanders' updates, planning weather, and operational weather updates.

(g) Relays current and forecast weather data to include WWAs to Warrior Tactical Operations Center (TOC) via phone or Fort Irwin Range Communications System (RCS).

(h) Conduct a METCON with the rotational units and the 25 OWS prior to MOAF and WWA issuance via DCO and/or telephone.

(i) Directly support NTC Operations Group (52nd ID), 11 Armored Cavalry Regiment (ACR)/OPFOR, and 916th Support Brigade as their Staff Weather Office (SWO) to manage operations.

8. Responsibilities of the NTC Observer-Coach/Trainers (OC/Ts)

(a) Provide RTUs with required NTC informational and planning material NLT 90 days prior to the start of the rotation.

(b) Provide guidance regarding NTC weather support and observe horizontal consistency and quality of MWPs produced by the RTU.

(c) Provide Exercise Rules of Engagement (EXROE) and NTC orientation briefings during Reception, Staging, Onward-Movement, and Integration (RSOI) week.

(d) Ensure all safety concerns during the rotation are addressed and intervene as necessary.

(e) Observe weather teams under deployed conditions and offer recommended sustains and improvements to the RTU.

(f) Coach, train, and mentor weather teams as required.

(g) Operate as a liaison between the Battlefield Weather RTUs, 25 OWS, 12 CTS, NTC Army OC/Ts, and supported Army customers as required.

(h) Provide informal and formal AARs. Two formal AARs will be conducted during the rotation on TD-7 and TD-14. A formal written AAR will be sent to the RTU BW leadership and OL-G, HQ ACC/A3W (FORSCOM) NLT 30 days following the end of the rotation (see Attachment 10).

9. Communication: It is imperative and the responsibility of the rotational weather teams to coordinate communication requirements with the Army prior to deployment. Teams should be aware that they will be operating in a contested, non-permissive (austere) environment, meaning communication outages and attacks from opposition forces may be frequent. At a minimum, weather teams require Non-secure Internet Protocol Routing Network (NIPRNET), Secure Internet Protocol Routing Network (SIPRNET), DSN phone, and working radio equipment that can reach up to 30 miles beyond line of sight. It is highly recommended that BWT's try to acquire Iridium or Satellite communications in order to mitigate potential communication outages while at NTC.

NESSA E. HOCK, Capt, USAF
Flight Commander

10 Attachments

1. NTC Deployment Timeline
2. NTC Pre-deployment Survey
3. NTC Roll Out Card & MTOE Examples
4. NTC Suggested Equipment/Packing List
5. NTC MOAF Example
6. NTC Watch, Warning Advisories (WWAs)
7. NTC 5-Day Forecast Example
8. NTC MWP Example
9. NTC SITREP Example
10. NTC Final AAR Example

Attachment 1

NTC DEPLOYMENT TIMELINE

(Timeline based on 14-day training rotation, estimated dates for specific rotations and/or events may vary from rotation to rotation)

D-90

- **Battlefield Weather Squadron/Detachment notifies BWT of NTC rotation dates**
- **BWT receives NTC LOI and planning documents**

D-75

- **BWT coordinates Weather Support MOA with supported Army unit(s)**

D-60

- **BW Squadron/Detachment leadership notifies 12 CTS/DOC of RTU BWT personnel**

D-30

- **BWT completes and emails the NTC Pre-Deployment Survey to 12 CTS/DOC**
- **BWT secures a DCO account and AFW-WEBS username/password**
- **BWT requests KQ identifier from AFWA**

D-14

- **BWT/BW Squadron/Detachment completes and emails the NTC Roll Out Card to 12 CTS/DOC**

D-2

- **BWT deploys to NTC/Ft Irwin and arrive at Rotational Unit Bivouac Area (RUBA)**

D-0 (RSOI 1)

- **Begins four days of academics/pre-deployment training/preparation for BWT**
- **BWT acquire MILES gear for personnel/vehicles (as applicable)**

D+4 (RSOI 5)

- **BWT deploys from RUBA to NTC Range**

D+5 (TD 1)

- **Begins Situational Training Exercise (STX) week**

D+12 (TD 7)

- **Mid-rotation AAR**

D+13 (TD 8)

- **Begins Force-on-Force week**

D+19 (TD 14)

- **ENDEX and Final AAR**

D+20 (BRD 01)

- **Begins Battlefield Recovery Day (BRD) week**
- **Final Army NTC AAR and Hero of the Rotation Award Ceremony**

D+21-24

- **BWT redeploys back to home station**

D+33

- **RTU Feedback/AAR completed and emailed to 12 CTS/DOC**

D+49

- **Final RTU AAR completed by 12 CTS/DOC and disseminated to RTU Leadership, Battlefield Weather Squadron Leadership, and OL-G, HQ ACC/A3W (FORSCOM)**

Attachment 2

NTC PRE-DEPLOYMENT SURVEY

FOUO - UNCLASSIFIED
PRE-DEPLOYMENT
INFORMATION SURVEY
NTC Rotation [ ]

UNIT:
HOME STATION:
OFFICE DSN:
OPS CHIEF/ DSN:

MISSION: SUPPORT (ARMY UNIT) DURING NTC IN (DIV/BCT/SFAB/AVN) OPERATIONS

WHEN WERE YOU NOTIFIED OF YOUR DEPLOYMENT TO NTC FOR THIS ROTATION?:

HOW MANY PRE-NTC MEETINGS DID YOU ATTEND?:

STATE YOUR CC's TRAINING OBJECTIVES FOR THIS NTC ROTATION:

1.
2.
3.

PERSONNEL RANK/NAMES & LAST DEPLOYMENT:

1. **NCOIC/OIC:**
2. **FORECASTER:**
3. **FORECASTER:**

TOTAL ARMY (BW) EXPERIENCE:

1. **NCOIC/OIC:**
2. **FORECASTER:**
3. **FORECASTER:**

EQUIPMENT (Y/N) & HOW MANY:

TMQ-53:
KESTREL:
NIPR LAPTOP (USAF or Army):
SIPR LAPTOP (USAF or Army):
M4 & M9:
SATPHONE:
GPS (i.e., DAGR):
LASER RANGEFINDER:
PRINTER:
GAS MASK:
CHEM GEAR:

HAVE ALL PHYSICAL ISSUES/SPECIAL NEEDS OF EACH ROTATIONAL PLAYER BEEN REVIEWED BY YOUR COMMAND AS ANNOTATED IN NTC LOI PARAGRAPH 4? CC/1SG INITIALS_____

DO YOU HAVE A SAR WITH THE 25TH OWS? (IF SO, PLEASE DESCRIBE THE SUPPORT THE 25TH WILL PROVIDE)

DO YOU HAVE A SIGNED MOA OR OPORD/FRAGO WITH THE SUPPORTED AR MY UNIT?

ARE YOU TRAVELING ON DTS OR ARMY GROUP ORDERS?

DO YOU HAVE A DCO ACCOUNT?

WHO IS YOUR S-2 POC?:

WHO IS YOUR S-3 POC?:

WHO IS YOUR S-6 POC?:

Send this form and a copy of your KQ ID(s), MTOE, MOA, and/or OPORD/FRAGO ANNEXES to the 12th CTS Weather Org Box

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Attachment 3

NTC ROLL OUT CARD & MTOE Examples

AIR FORCE BATTLEFIELD WEATHER TEAM ROLLOUT

ROTATION: 15-XX

UNIT(S):

1. PERSONNEL

Authorized:		
Assigned:		
Assign/Auth:		

1.1 KEY PERSONNEL

POSITION	RNK	Name (Last & First)
BCT SWO NCOIC		
BCT SWO		
BCT SWO		
AVN SWO NCOIC		
AVN SWO		
AVN SWO		

1.2 PERSONNEL NOTES:

BCT:

AVN:

2. EQUIPMENT:

2.1 MISSION COMMAND (REQ/ISSUED)

TMQ-53 (TMOS)			Binoculars		
Laser Range Finder			VOIP Phone		
Kestrel			SVOIP Phone		
Irridium Phone			TACSAT		
SIPR PC			UPS		
NIPR PC			SWO Kit		
DAGR			DCSG-A System		
Radio: SINGCARS			AN/PYQ-10		
Radio: AN/PSC-5			Other		
BGAN					
Antenna					

2.2 MOVEMENT & MANEUVER (REQ/ISSUED)

Weapon: M4			Cargo/Troop Carrier (HMMWV)		
Weapon: M9			Light Tactical Trailer		
Weapon Sights			Towbar Motor Vehicle		
Generator Set			Power Supply (PP-6224/U)		

2.3 PROTECTION (REQ/ISSUED)

Body Armor			Joint Chemical Agent Detector		
Eye Protection			Radiation Detection Set		
Ear Protection			IFAK		
JLIST (Chem)					
Gas Mask					

2.4 EQUIPMENT NOTES:

Army comm equip/systems used for rotation:

BCT:

AVN:

4. CDR's UNIT ASSESSMENT

4.1 UNIT METL

AFT 3.1.1.1.4 Perform Weather Service
AFT 3.1.1.1.5 Perform Navigation and Positioning Functions
AFT 3.1.4 Plan Information Operations Functions
AFT 5.4.1 Perform AEF Functions
AFT 5.4.4 Plan AEF Functions
AFT 6.3.1.4 Prepare for Reachback Support
AFT 6.5.1 Employ the Force
AFT 6.6.1 Sustain the Force
AFT 6.7.1 Recover the Force

4.2 TEAM STRENGTHS

BCT:

AVN:

4.3 TEAM WEAKNESSES

BCT:

AVN:

5. NTC TRAINING OBJECTIVES

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

6. CDR'S DESIRED C/T FOCUS

Army Integration:

BCT:

AVN:

BCT MTOE

STAFF WEATHER OFFICE

PARNO	LIN	ERC	NOMENCLATURE	REQEQ	AUTHEQ	PARENT UNIT REQEQ	PARENT UNIT AUTHEQ	RMK1	RMK2	MDUIC	SUBCO
512	A35329	P	WORKSTATION PORTABLE MULTIFUNCTION: AN/TYQ-93(V)		1	1	1	1			
512	A79381	A	ANTENNA GROUP: OE-254()/GRC		1	1	1	1			
512	B49004	A	BAYONET MULTIPURPOSE SYSTEM: XM9		4	4	4	4			
512	B67766	A	BINOCULAR: MODULAR CONSTRUCTION MIL SCALE RETICLE 7X50MM W/E		1	1	1	1			
512	C05002	A	COMPUTER SYS DIGITAL: AN/PYQ-10(C)		1	1	1	1			
512	J00697	A	JOINT CHMCL AGENT: DETECTOR		1	1	1	1			
512	M12986	A	MASK CHEMICL BIOLOGICL JOINT SERVICE GENERAL PURPOSE: FIELD M50		4	4	4	4			
512	N05482	A	NIGHT VISION: GOGGLE		2	2	2	2			
512	N96248	A	NAVIGATION SET: SATELLITE SIGNALS AN/PSN-13		1	1	1	1			
512	R20684	A	RADIAC SET: AN/VDR-2		1	1	1	1			
512	R31061	A	RADIAC SET: AN/UDR-13		1	1	1	1			
512	R68044	A	RADIO SET: AN/VRC-90F(C)		1	1	1	1			
512	R97234	A	RIFLE 5 56 MILLIMETER: M4		4	4	4	4			
512	S60288	A	SIGHT: REFLEX COLLIMATOR		4	4	4	4			
512	T61494	A	TRUCK UTILITY: CARGO/TROOP CARRIER 1-1/4 TON 4X4 W/E (HMMWV)		1	1	1	1			
512	T95992	A	LIGHT TACTICAL TRAILER: 3/4 TON		1	1	1	1			

AVN MTOE (Derived from CAB MTOE)

TAC/INTEL/ISR/SWO EL

PARNO	LIN	ERC	NOMENCLATURE	REQEQ	AUTHEQ	PARENT UNIT REQEQ	PARENT UNIT AUTHEQ	RMK1	RMK2	MDUIC	SUBCO
339	A35329	A	WORKSTATION PORTABLE MULTIFUNCTION: AN/TYQ-93(V)		1	1	1	1			
339	A79381	A	ANTENNA GROUP: OE-254()/GRC		1	1	1	1			
339	B49004	A	BAYONET MULTIPURPOSE SYSTEM: XM9		3	3	3	3			
339	B67766	A	BINOCULAR: MODULAR CONSTRUCTION MIL SCALE RETICLE 7X50MM W/E		2	2	2	2			
339	C05002	A	COMPUTER SYS DIGITAL: AN/PYQ-10(C)		1	1	1	1			
339	J00697	A	JOINT CHMCL AGENT: DETECTOR		1	1	1	1			
339	M12986	A	MASK CHEMICL BIOLOGICL JOINT SERVICE GENERAL PURPOSE: FIELD M50		3	3	3	3			
339	N05482	A	NIGHT VISION: GOGGLE		2	2	2	2			
339	N96248	A	NAVIGATION SET: SATELLITE SIGNALS AN/PSN-13		1	1	1	1			
339	R20684	A	RADIAC SET: AN/VDR-2		1	1	1	1			
339	R31061	A	RADIAC SET: AN/UDR-13		1	1	1	1			
339	R68044	A	RADIO SET: AN/VRC-90F(C)		1	1	1	1			
339	R97234	A	RIFLE 5 56 MILLIMETER: M4		3	3	3	3			
339	S60288	A	SIGHT: REFLEX COLLIMATOR		3	3	3	3			
339	T61494	A	TRUCK UTILITY: CARGO/TROOP CARRIER 1-1/4 TON 4X4 W/E (HMMWV)		1	1	1	1	599		
339	T95992	A	LIGHT TACTICAL TRAILER: 3/4 TON		1	1	1	1			

Attachment 4

NTC SUGGESTED EQUIPMENT/PACKING LIST

(this is just a suggested list and is not inclusive for every type of NTC rotation)

- Copies of current Joint, Air Force, and local guidance on METOC operations (ex. AFMAN 15-111, SOPs, etc.) (Note: if using electronic copies, they should be downloaded and saved to your computer(s) or CD)
- References of Unit Tactical Standard Operating Procedures (TSOPs)
- NIPRNET Laptop(s)
- SIPRNET Laptop(s) (DCGS-A)
- Radio(s) (HF/UHF/VHF)
- Satellite Phone(s)
- TMQ-53(s)
- Kestral(s) (larger amount needed for FALOP program)
- SWO Kit(s) (to include USB Mice, clipboard(s), CDs, paper/printer, power strip(s), CAC reader(s), extension cords, etc.)
- Log book(s)
- Gas Masks and CHEM gear (Decisive Action Rotations especially!!)
- Kevlar Helmets
- Body Armor
- Weapons: M4s/M9s and associated equipment (with muzzle adapters if not provided by the Army)
- Reflective Belt(s)
- Eye Protection
- Ear Protection
- Camelback(s) and/or water container(s) (Gas Mask adaptors or canteens for chemical attacks)
- IFAK(s)
- Flashlight with red cover for night operations
- Sleeping bag, cot or mat, and pillow
- Toiletries (Hand sanitizer, baby wipes, toilet paper, sunscreen, etc.)
- ABUs or OCP Uniform Items
- PT Uniform Items
- Shower shoes
- Cold Weather Gear (if necessary)
- Poncho(s)
- Tent(s)
- HMMVW(s)/Trailer(s)

Attachment 5

NTC MOAF EXAMPLE

FOUS05 KAOS 222200
NATIONAL TRAINING CENTER MILITARY OPERATING AREA FORECAST
VALID: 22/2200Z TO 23/2200Z
RANGE SURFACE ELEVATION: 2500 FT MSL
ALL HEIGHTS HUNDREDS OF FEET MSL (UNLESS OTHERWISE NOTED)
TS/CB IMPLY MODERATE OR GREATER TURBULENCE/ICING
CEILING EQUAL TO BASE OF LOWEST BKN OR OVC CLOUD LAYER

SYNOPTIC DISCUSSION: WITH A STRONG BAND OF WINDS ASSOCIATED WITH THE PFJ MOVING OVER THE LOCATION FROM THE NORTH AND AN INVERSION BREAK WILL CAUSE HIGHER SPEEDS AND GUSTY WINDS AT THE SFC AROUND 12Z. THE HIGH STILL SITUATED OVER THE AREA KEEPING THE LOWER LEVELS DRY BUT ALLOWING FOR SOME UPPER LEVEL CLOUDS TO MOVE INTO THE AREA.

CLOUDS: BKN280/300
AFT 02Z: SCT280/300

SFC VIS/WX: 7SM/NONE

SFC WNDS: 28011KT
AFT 02Z: 26008KT
AFT 12Z: 35015G25KT
AFT 21Z: 32012G18KT

FLIGHT LEVEL HAZARDS:
MIN FZ LVL: 096
TSTMS: NONE
TURB: NONE
ICING: NONE

KBYS
MIN ALSTG: 30.09INS
MAX PA: +2197
MAX/MIN TEMP: 17C/04C
MAX RH/TIME: 36%/15Z
HEAT INDEX: N/A
WIND CHILL: 02C

NTC RANGE
MIN ALSTG: 30.09INS
MAX PA: SEE NOTE
MAX/MIN TEMP: 17C/04C

MAX RH/TIME: 36%/15Z
HEAT INDEX: N/A
WIND CHILL: 02C

CALL DUTY FORECASTER WITH LOCATION AND ELEVATION
FOR MAX PA ON NTC RANGE

LOW LEVEL WINDS/TEMPS: (AGL)
200FT: 04010KT/07C
500FT: 04010KT/07C
700FT: 05010KT/07C
1,000FT: 05010KT/07C
1,500FT: 05010KT/07C
2,000FT: 05015KT/07C
3,000FT: 06015KT/06C
5,000FT: 10015KT/03C
7,000FT: 13010KT/01C

FLIGHT LEVEL WINDS/TEMPS: (MSL)
100: 15010KT/00C
140: 24010KT/M08C
180: 25015KT/M15C
240: 26030KT/M27C
300: 25055KT/M39C

REMARKS: NONE
POC: 25OWS/WXAS DSN 228-7650
FORECASTER: SNUFFY
QA: BOSS

Attachment 6

NTC WEATHER WATCHES, WARNINGS AND ADVISORIES (WWAs)

Reference AFMAN 15-129v1, NTC & Fort Irwin Regulation 115-10

All WWAs are issued by the Weather Flight, 12th Combat Training Squadron (12 CTS/DOC) and/or RTU BWT, and/or 25 OWS as described below and disseminated to all supported units IAW AFMAN 15-129V1 and local requirements. WWAs will contain an assigned number, valid time, title, and text explaining the criteria. Each WWA is issued for a clearly defined area(s) stated within the text.

Responsibilities

12 CTS/DOC: The 12 CTS/DOC will issue all observed weather advisories and warnings for the four NTC WWA area(s), Goldstone Airstrip (GAS), Bicycle Lake Army Airfield (BLAAF/KBYS). and Barstow-Daggett Airfield (KDAG) during duty hours (see Image 1 below).

25 OWS: The 25 OWS will issue observed weather advisories and warnings for the NTC WWA area(s), GAS, BLAAF. and KDAG when the 12 CTS/DOC is closed or otherwise loses the capability to issue observed WWAs. The 25 OWS will also issue all forecast advisories, watches and warnings for the NTC WWA area(s), GAS and KDAG.

RTU BWT: Rotational units will only issue observed weather advisories and warnings for the NTC WWA area(s) when the 12 CTS/DOC loses the capability to issue observed WWAs. Upon issuing, they will notify the 25 OWS of the observed weather. Major units, separate commands, and staff agencies will develop plans to rapidly disseminate issuance and cancellation of WWAs via the command and staff intercom, radio, and/or telephone. Plans will also detail appropriate protective measures. Rotational units are encouraged to be a part of this process.

Dissemination

The Joint Environmental Toolkit (JET) may not be available and/or serve as a practical means of dissemination to the BWT RTU in the field. Thus, the primary method of dissemination of WWAs to the BWT RTU from the 25 OWS will be DCO. The alternate method will be via phone or email.

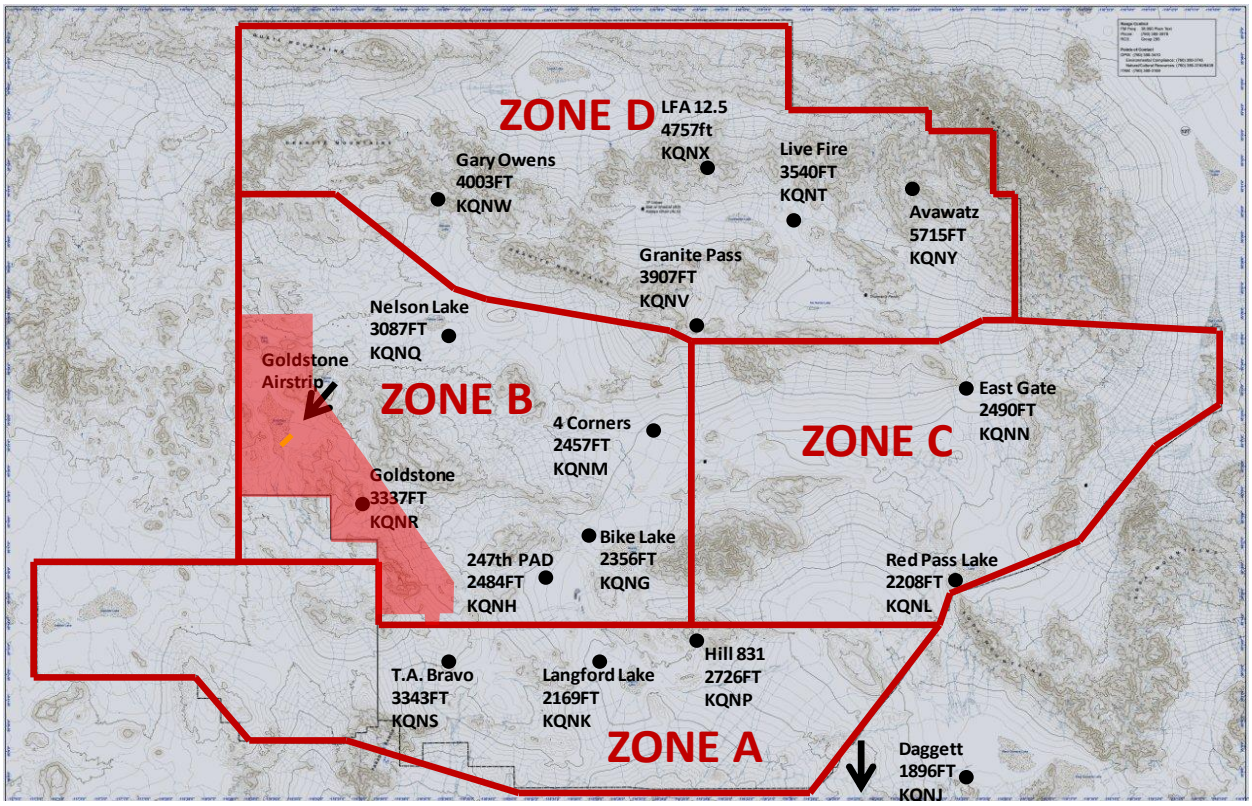

Image 1. NTC WWA Zone Map

Weather Watches

A Weather Watch is defined as a message providing notice of the *potential* for conditions that pose a hazard to life or property.

The 25 OWS issues forecast weather watches for the NTC as a whole when the potential for the criteria defined below (Table 1).

Table 1. Weather Watch Criteria and Minimum Desired Lead-Times for NTC WWA Zones

Watch Type	Criteria	Desired Lead Time	Issued By
Tornado	Potential for Tornado or Funnel Cloud	60 minutes	25 OWS
Damaging Winds	Potential for Surface winds ≥ 45 kts	180 minutes	25 OWS
Moderate Thunderstorm	Potential for Moderate Thunderstorm (Hail ≥ 1/4 in but < 1/2 in and/or Winds ≥ 30 kts but < 45 kts and/or Flash Flooding)	180 minutes	25 OWS
Severe Thunderstorm	Potential for Severe Thunderstorm (Hail ≥ 1/2 in and/or Winds ≥ 45 kts and/or Flash Flooding)	180 minutes	25 OWS
Duststorm	Potential for Duststorm	180 minutes	25 OWS
Freezing Precipitation	Potential for Freezing Precipitation	120 minutes	25 OWS
Heavy Snow	Potential for Heavy Snow ≥ 2 in w/in 12 hrs	180 Minutes	25 OWS
Heavy Rain	Potential for Heavy Rain ≥ 1/2 in w/in 6 hrs	180 Minutes	25 OWS

Weather Warnings

A Weather Warning is defined as a message providing notice of *imminent or occurring* conditions that pose a hazard to life or property for which protective action must be taken.

The 25 OWS will issue a weather warning for the NTC WWA Zones when the criteria defined below occurs, or is expected to occur (Table 2). The 25 OWS will issue and cancel observed warnings when 12 CTS/DOC and/or RTU BWT is closed or unable to issue/cancel the warning(s).

RTUs will issue warnings for forecast phenomena when imminent weather conditions pose a hazard to life and property, and time of onset does not allow CU collaboration.

Table 2. Weather Warning Criteria and Minimum Desired Lead-Times for NTC WWA Zones, GAS, and BLAAF

Warning Type	Criteria	Desired Lead Time	Issued By
Tornado	Tornado/Funnel Cloud expected	30 Minutes	25 OWS
Damaging Winds	Damaging Winds ≥ 45 kts expected	90 Minutes	25 OWS
Moderate Thunderstorm	Moderate Thunderstorm (Hail ≥ 1/4 in but < 1/2 in and/or Winds ≥ 30 kts but < 45 kts and/or Flash Flooding) expected	90 Minutes	25 OWS
Severe Thunderstorm	Severe Thunderstorm (Hail ≥ 1/2 in and/or Winds ≥ 45 kts and/or Flash Flooding) expected	90 Minutes	25 OWS
Lightning	Observed Lightning w/in 5 NM of BLAAF	Observed	WF
Lightning	Observed Lightning w/in 5 NM of GAS	Observed	WF
Duststorm	Duststorm expected	90 minutes	25 OWS
Freezing Precipitation	Freezing Precipitation (any intensity) expected	60 Minutes	25 OWS
Heavy Snow	Heavy Snow ≥ 2 in w/in 12 hrs expected	90 Minutes	25 OWS
Heavy Rain	Heavy Rain ≥ 1/2 in w/in 12 hrs expected	90 Minutes	25 OWS
Turbulence	CAT I Turbulence below 10,000 ft MSL ≥ Moderate occasional Severe	90 Minutes	25 OWS
Turbulence	CAT II Turbulence below 10,000 ft MSL ≥ Moderate occasional Severe	90 Minutes	25 OWS

Weather Advisories

Weather Advisories are special notices provided when the specific weather conditions listed in below are *occurring or are expected to occur* within the NTC WWA Zones.

Weather Advisories will be issued and/or canceled by the 25 OWS.

In the event the capability to sense the phenomena does not exist, the 25 OWS will issue weather advisories when the potential for any of the criteria is apparent (i.e. nearby observations, satellite, etc.)

Table 3. Weather Advisory Criteria for NTC WWA Zones and GAS

Advisory Type	Criteria	Desired Lead Time	Issued By
Strong Winds	Forecasted Winds ≥ 30 kts but < 45 kts	60 Minutes	25 OWS
Strong Winds	Forecasted Winds ≥ 25 kts	60 Minutes	25 OWS
Strong Winds	Observed Crosswinds ≥ 22 knts	Observed	WF
Lightning	Observed Lightning w/in 25 NM of GAS	Observed	WF
Icing	Observed Icing ≥ Moderate below 10,000 ft MSL	Observed	WF
Turbulence	Observed CAT I Turbulence below 10,000 ft MSL ≥ Moderate	Observed	WF

Attachment 7

NTC 5-DAY FORECAST EXAMPLE

FOR PLANNING PURPOSES ONLY

NATIONAL TRAINING CENTER 5-DAY FORECAST

AS OF 0200 HRS LOCAL 23 JAN 14

	Fri 24 Jan 14		Sat 25 Jan 14		Sun 26 Jan 14		Mon 27 Jan 14		Tue 28 Jan 14	
FORECAST										
TEMPS	LO: 48F/9C	HI: 64F/18C	LO: 46F/8C	HI: 66F/19C	LO: 46F/8C	HI: 70F/21C	LO: 52F/11C	HI: 70F/21C	LO: 54F/12C	HI: 73F/23C
	WIND CHILL 44F/6C	HEAT INDEX N/A	WIND CHILL 40F/5C	HEAT INDEX N/A	WIND CHILL 43F/6C	HEAT INDEX N/A	WIND CHILL N/A	HEAT INDEX N/A	WIND CHILL N/A	HEAT INDEX N/A
WINDS	12 KTS	12 KTS	12 KTS	12 KTS	9 KTS	9 KTS	9 KTS	9 KTS	12 KTS	12 KTS
SKY/VIS/WX CONDITIONS	7 MI / 15000FT MOSTLY CLOUDY	7 MI / 15000FT MOSTLY CLOUDY	7 MI / NO CIG PARTLY CLOUDY	7 MI / NO CIG MOSTLY CLEAR	7 MI / NO CIG CLEAR	7 MI / NO CIG CLEAR	7 MI / NO CIG MOSTLY CLEAR	7 MI / NO CIG PARTLY CLOUDY	7 MI / 25000FT MOSTLY CLOUDY	7 MI / 25000FT MOSTLY CLOUDY
DA / PA	MAX DA: +2854FT	MAX PA: +2040FT	MAX DA: +3067FT	MAX PA: +2068FT	MAX DA: +3433FT	MAX PA: +2178FT	MAX DA: +3396FT	MAX PA: +2160FT	MAX DA: +3566FT	MAX PA: +2132FT
SOLAR / LUNAR DATA	BMNT: 0551	EENT: 1803	BMNT: 0551	EENT: 1804	BMNT: 0550	EENT: 1805	BMNT: 0550	EENT: 1806	BMNT: 0549	EENT: 1807
	SR: 0649	SS: 1705	SR: 0648	SS: 1706	SR: 0648	SS: 1707	SR: 0647	SS: 1708	SR: 0646	SS: 1709
	MR: 0023	MS: 1124	MR: 0125	MS: 1209	MR: 0228	MS: 1301	MR: 0330	MS: 1400	MR: 0430	MS: 1505
	DARK PERIOD 0:23 / 5:57	MOON PERIOD 5:28	DARK PERIOD 1:25 / 5:56	MOON PERIOD 4:26	DARK PERIOD 2:28 / 5:55	MOON PERIOD 3:22	DARK PERIOD 3:30 / 5:54	MOON PERIOD 2:20	DARK PERIOD 4:30 / 5:53	MOON PERIOD 1:19
ILLUM DATA	57%		52%		42%		31%		20%	
PERSONNEL										
MANEUVER - RECCE										
HELO OPS										
CAS										
UAV										
AIRBORNE										
AIR ASSAULT										
NBC-SMOKE	W	W	W	W	W		W		W	W
TIME	00 06 12 18	00 06 12 18	00 06 12 18	00 06 12 18	00 06 12 18	00 06 12 18	00 06 12 18	00 06 12 18	00 06 12 18	00 06 12 18 00

W – Wind

FORECASTER: RAVEN WEATHER

FOR PLANNING PURPOSES ONLY

Attachment 8

NTC MWP EXAMPLE

NATIONAL TRAINING CENTER ROTARY WING MISSION WEATHER PRODUCT

12TH COMBAT TRAINING SQUADRON	FLIMSY#: 16B	ISSUE TIME: 1600Z	
RAVEN TEAM WEATHER	AMD #: N/A	AMD TIME: N/A	
DSN: 470-9527 / COMM: 760-380-9527	VALID TIME: 16/1600Z-17/1600Z		
RCS #: 21/105	PMSV PRIMARY: 69.95	ALTN: 66.90	DATE: 16-Jan-15	JULIAN DAY: 016
BRIEF TIME:	VOID TIME:	WX INITIALS:	

BICYCLE LAKE AAF TAKEOFF/LANDING WEATHER

VALID TIME ZULU	VALID TIME LOCAL	WIND	VIS	PRESENT WX	SKY CONDITION (AGL)	°F	°C	ALSTG	PA	DA
16 - 20	08 - 12	08007	7		BKN200	45	07	30.24	+2055	+1659
REMARKS:					DPT:	25	-04		RH%:	45
20 - 24	12 - 16	08007	7		BKN200	55	13	30.23	+2064	+2389
REMARKS:					DPT:	27	-03		RH%:	33
24 - 04	16 - 20	08007	7		SCT200 BKN260	57	14	30.19	+2101	+2547
REMARKS:					DPT:	25	-04		RH%:	28
04 - 08	20 - 00	VRB06	7		SCT200 BKN260	50	10	30.20	+2092	+2064
REMARKS:					DPT:	25	-04		RH%:	37
08 - 12	00 - 04	VRB06	7		SCT200 BKN260	46	08	30.20	+2092	+1829
REMARKS:					DPT:	27	-03		RH%:	46
12 - 16	04 - 08	VRB06	7		SCT200 BKN260	45	07	30.16	+2129	+1750
REMARKS:					DPT:	25	-04		RH%:	45

MAX TEMP:	57	F°	14	C°	MAX PA:	+2129	FREEZING LVL (MSL): 125
MIN TEMP:	45	F°	07	C°	MIN ALSTG:	30.16	+04°C LVL (MSL): 100

NATIONAL TRAINING CENTER CLIMB WINDS

HEIGHT	WIND	TEMP	RH	HEIGHT	WIND	TEMP	RH	HEIGHT	WIND	TEMP	RH
005 AGL	36002KT	12C	35%	FL 040	11004KT	10C	27%	FL 080	28007KT	07C	4%
010 AGL	04003KT	10C	31%	FL 050	16005KT	09C	25%	FL 100	29013KT	05C	4%
015 AGL	11003KT	10C	30%	FL 060	17009KT	07C	23%	FL 120	30013KT	01C	11%

BARSTOW-DAGGETT AIRPORT TAKEOFF/LANDING WEATHER

VALID TIME ZULU	VALID TIME LOCAL	WIND	VIS	PRESENT WX	SKY CONDITION (AGL)	°F	°C	ALSTG	PA	DA
16 - 20	08 - 12	27007	7		SCT250	39	04	30.29	+1589	+728
REMARKS:					DPT:	30	-01		RH%:	70
20 - 24	12 - 16	04004	7		BKN250	55	13	30.27	+1607	+1838
REMARKS:					DPT:	32	00		RH%:	41
24 - 04	16 - 20	04004	7		BKN250	61	16	30.22	+1653	+2232
REMARKS:					DPT:	27	-03		RH%:	27
04 - 08	20 - 00	27007	7		SCT250	48	09	30.21	+1663	+1426
REMARKS:					DPT:	30	-01		RH%:	49
08 - 12	00 - 04	27007	7		SCT250	43	06	30.24	+1635	+1029
REMARKS:					DPT:	30	-01		RH%:	61
12 - 16	04 - 08	27007	7		BKN250	41	05	30.21	+1663	+942
REMARKS:					DPT:	30	-01		RH%:	65

MAX TEMP:	61	F°	16	C°	MAX PA:	+1663	FREEZING LVL (MSL): 125
MIN TEMP:	39	F°	04	C°	MIN ALSTG:	30.21	+04°C LVL (MSL): 100

BARSTOW-DAGGETT AIRPORT CLIMB WINDS

HEIGHT	WIND	TEMP	RH	HEIGHT	WIND	TEMP	RH	HEIGHT	WIND	TEMP	RH
005 AGL	04002KT	11C	41%	FL 040	12008KT	09C	30%	FL 080	29009KT	08C	3%
010 AGL	05003KT	09C	40%	FL 050	14012KT	10C	24%	FL 100	30012KT	07C	3%
015 AGL	10005KT	09C	36%	FL 060	16006KT	10C	14%	FL 120	30015KT	05C	4%

NATIONAL TRAINING CENTER SOLAR/LUNAR DATA

16-Jan-15											
BMNT:	0556L	MOONRISE:	0255L	ILLUM %	ANGLE < 30°			ANGLE > 30°			
SUNRISE:	0654L	MOONSET:	1336L	> 31%:		-			-		
SUNSET:	1658L	MAX ILLUM:	22%	< 31%:	MR	-	0615L	0615L	-	1015L	
EENT:	1757L	MIN ILLUM:	14%	MAX ELV:	37	AZ:	175	TIME:	0800L		

17-Jan-15											
BMNT:	0556L	MOONRISE:	0355L	ILLUM %	ANGLE < 30°			ANGLE > 30°			
SUNRISE:	0654L	MOONSET:	1429L	> 31%:		-			-		
SUNSET:	1659L	MAX ILLUM:	14%	< 31%:	MR	-	0715L	0715L	-	1100L	
EENT:	1758L	MIN ILLUM:	7%	MAX ELV:	36	AZ:	176	TIME:	0900L		

SPACE WEATHER	HF COMM:	UHF COMM:	GPS ERROR:
	No Impact	No Impact	No Impact

BICYCLE LAKE AAF RAVEN TEAM WEATHER DUTY HOURS

ROTATIONAL TRAINING DAYS: 24/7 OPERATIONS, CLOSED AFTER 2000L (0300Z) ON FINAL TRAINING DAY
NON-TRAINING DAYS (RSOI/BRD/WHITE WEEKS): MONDAY THROUGH FRIDAY 0600L (1300Z) TO 2200L (0500Z)
DURING HOURS OF CLOSURE, PLEASE CALL 25OWS FOR ALL WEATHER BRIEFINGS
25OWS WEATHER BRIEFING CELL DSN: 228-6598/6599 COMM: 520-228-6598/6599

WAS WEATHER AS BRIEFED?	YES	NO	WEBSITE:	http://www.irwin.army.mil/CommandGroupUnits/Units/OPSGRP/USAFww/Pages/default.aspx
PLEASE RETURN FEEDBACK TO FORT IRWIN WEATHER OPERATIONS			EMAIL:	usarmy.irwin.12-cts.mbx.irwin-weather@mail.mil

LOCAL AREA WATCHES, WARNINGS, AND ADVISORIES

NTC WATCHES, WARNINGS, AND ADVISORIES

VALID ZONE(S)						TYPE	CRITERIA	VALID TIME
A:	B:	C:	D:	GAS:				
A:	B:	C:	D:	GAS:				
A:	B:	C:	D:	GAS:				
A:	B:	C:	D:	GAS:				
A:	B:	C:	D:	GAS:				
A:	B:	C:	D:	GAS:				
A:	B:	C:	D:	GAS:				
A:	B:	C:	D:	GAS:				
A:	B:	C:	D:	GAS:				
A:	B:	C:	D:	GAS:				
BLAAF:		GAS:						

BARSTOW-DAGGETT WATCHES, WARNINGS, AND ADVISORIES

TYPE	CRITERIA	VALID TIME

LOCAL FLYING AREA FORECASTS VALID TIME: 16/1600Z-17/1600Z

ICAO	WIND	VIS	PRESENT WX	SKY CONDITION (AGL)	TOPS (AGL)	°F	°C
KVCV	10006	7		BKN250	350	59	15
KL35	09006	7		BKN250	350	50	10
KPMD	06007	7		SCT250	350	59	15

NATIONAL TRAINING CENTER MISSION OPERATING AREA WEATHER

VALID TIME ZULU	VALID TIME LOCAL	NTC NORTH OF PL DRAGON (ALL HEIGHTS ARE IN MSL)			
16 - 22	08 - 14	SKY CON:	BKN220/300	PRECIP:	
		TSTMS:		ICING:	
		CAT 1 TURB:		CAT 2 TURB:	
22 - 04	14 - 20	SKY CON:	BKN220/300 *AFT 00Z SCT220/300 BKN 280	PRECIP:	
		TSTMS:		ICING:	
		CAT 1 TURB:		CAT 2 TURB:	
04 - 10	20 - 02	SKY CON:	SCT220/300 BKN280/350	PRECIP:	
		TSTMS:		ICING:	
		CAT 1 TURB:		CAT 2 TURB:	
10 - 16	02 - 08	SKY CON:	SCT220/300 BKN280/350	PRECIP:	
		TSTMS:		ICING:	
		CAT 1 TURB:		CAT 2 TURB:	

VALID TIME ZULU	VALID TIME LOCAL	NTC SOUTH OF PL DRAGON (ALL HEIGHTS ARE IN MSL)			
16 - 22	08 - 14	SKY CON:	BKN220/300	PRECIP:	
		TSTMS:		ICING:	
		CAT 1 TURB:		CAT 2 TURB:	
22 - 04	14 - 20	SKY CON:	BKN220/300 *AFT 00Z SCT220/300 BKN 280	PRECIP:	
		TSTMS:		ICING:	
		CAT 1 TURB:		CAT 2 TURB:	
04 - 10	20 - 02	SKY CON:	SCT220/300 BKN280/350	PRECIP:	
		TSTMS:		ICING:	
		CAT 1 TURB:		CAT 2 TURB:	
10 - 16	02 - 08	SKY CON:	SCT220/300 BKN280/350	PRECIP:	
		TSTMS:		ICING:	
		CAT 1 TURB:		CAT 2 TURB:	

NOTES

THIS PRODUCT IS NOT FOR USE BY ROTATIONAL UNITS

THUNDERSTORM HAZARD NOTES

WHEN THUNDERSTORMS ARE FORECAST TO OCCUR, THESE CONDITIONS ARE POSSIBLE IN VICINITY OF CONVECTIVE ACTIVITY: LOW-LEVEL WIND SHEAR, SEVERE TO EXTREME TURBULENCE, SEVERE ICING, HEAVY PRECIP, LOCALIZED FLASH FLOODING, AND STRONG WINDS GREATER THAN 45 KNOTS. ALL MWP HAZARD FORECASTS ARE FOR CONDITIONS OUTSIDE OF THUNDERSTORM ACTIVITY.

Attachment 9

NTC SITREP Example

DAILY SITREP UNIT DDMMMYYYY

PERSONNEL	WEAPONS
NCIOC	SERIAL #'S
FCSTR	SERIAL #'S
FCSTR	SERIAL #'S

SIGACTS PAST 24
WHO
WHAT
WHERE
WHEN
WHY (ACCOUNTABILITY TIME)

SIGACTS NEXT 24
WHO
WHAT
WHERE
WHEN
WHY

SIGWX PAST 24
PLAIN LANGUAGE WITH IMPACTS

SIXWX NEXT 24
PLAIN LANGUAGE WITH IMPACTS

DELOPS PAST 24
BASIC DETAILS (LOCATION, AIRCRAFT, OUTCOME)

DELOPS NEXT 48
BASIC DETAILS (LOCATION, AIRCRAFT, PURPOSE)

IMPROVES PAST 24
LIST 2 BULLET FORM

SUSTAINS PAST 24
LIST 2 BULLET FORM

OUTSTANDING PERFORMER PAST 24
PLAIN LANGUAGE

*__Note:__ A copy of this sample SITREP will be included on CD at the time of team deployment. The DIV/BCT OIC/NCOIC has the authority to change the format, and enhance the content, but not take away content.

Attachment 10

NTC Final AAR Example

MEMORANDUM FOR SEE DISTRIBUTION

FROM: 12 CTS/DOC

SUBJECT: Battlefield Weather (BW) Observer-Coach/Trainer (OC/T) After Action Review (AAR) for the National Training Center (NTC) Rotation XX-XX

1. **Overview**

   a. **Executive Summary**: *Describe exercise overview.*

   b. **Deployed Personnel:** *List units and positions of BWT members.*

TSgt Joe Snuffy (AVN NCOIC)	Det X, Xst WS, Ft. Somewhere
SrA John Doe (AVN)	Det X, Xst WS, Ft. Somewhere
TSgt Steve Somebody (BCT NCOIC)	Xd WS, Ft. Overthere
SSgt Nancy Lastname (BCT)	Xd WS, Ft. Overthere

   c. **Deployed/Fixed Weather Equipment:** *List rotational training unit (RTU) weather/comm./tactical equipment below.*

2. **Training Objectives.** *List RTU's training objectives below.*

   a. Brigade Training Objectives

   b. Aviation Task Force Objectives

3. **Significant Exercise Highlights.** *List significant weather and exercise events that occurred during the NTC rotation.*

4. **Lessons Learned, Observations, Issues and Trends.** *Note any lessons learned, particularly with respect to the weather scenario operation that occurred during the NTC rotation.*

   a. **Issue:**
      Discussion:
      Recommendation:

   b. **Issue:**
      Discussion:
      Recommendation:

5. **Sustains**: *List any outstanding actions/TTPs observed by RTUs during the NTC rotation.*

   Finding 1:

   Finding 2:

6. **Conclusion.** *Summarize previous content of AAR and add final notes concerning BWTs actions during the NTC rotation.*

7. **Contact Information.** *Provide 12 CTS/DOC contact information.*

//signed//
XXXX X. XXXX, Rank, USAF
Duty Title, 12 CTS/DOC