



DEPARTMENT OF THE NAVY
NAVAL AIR STATION
NORTH ISLAND
BOX 357033
SAN DIEGO, CALIFORNIA 92135-7033

NASNIINST 3145.1K
30

5 JUN 1996

NASNI INSTRUCTION 3145.1K

Subj: SEVERE WEATHER BILL

Ref: (a) NAVOCEANCOMINST 3140.1J
(b) OPNAVINST 3140.24E
(c) NASNIINST C3010.4G

Encl: (1) Warnings
(2) Severe Weather Bill Notification List
(3) Weather Condition Message Format

1. Purpose. To publish information, procedures and action to be taken when warnings of storms, high winds or other hazardous or destructive weather phenomena are issued for NASNI. This is a major revision and should be read in its entirety. Margin markings have not been used.

2. Cancellation. NASNIINST 3145.1J

3. Information

a. Reference (a) describes types of severe weather warnings and sets forth areas of responsibility for issuance and dissemination of weather information by the Naval Pacific Meteorology and Oceanography Facility (NAVPACMETOCFAC) San Diego.

b. Reference (b) establishes command responsibilities and provides information concerning hazardous and destructive weather phenomena. It also establishes related conditions of readiness of the proper safeguarding of personnel and property.

c. Reference (c) establishes procedures for the dispersal of aircraft aboard NASNI.

4. Discussion. Adequate precautions to protect lives and property must be taken in the event of severe or hazardous weather. These precautions must consider safe mooring or stowage of aircraft, vehicles and boats, and securing all material such as lumber, check stands, ladders, drums, sheet metal and loose gear of any type which might be picked up and hurled with destructive force by wind. Personnel shall be provided with adequate shelter for protection from flying debris, hailstones, etc. Safeguards should also be established to minimize potential fire or explosion hazards due to lightning strikes. Timely weather warnings and conditions are to be disseminated to local commands and aviation capable ships operating in local areas.

5. Conditions of Readiness (CORs). Per reference (b), CORs shall be set at all Navy activities and commands ashore in anticipation of hazardous or destructive winds. Per reference (a), NAVPACMETOCFAC San Diego is responsible for the timely issuance of wind and severe weather warnings as outlined in enclosure (1). The NAVPACMETOCFAC San Diego Forecast Duty Officer (FDO) will advise the NASNI Operations Duty Officer (ODO) upon the issuance or update of weather warnings in order to assist in the ODO's final decision to set CORs for NASNI. Per reference (b), the following CORs will be established at the discretion of the ODO:

a. <u>Gale/Storm/Hurricane</u>	<u>Destructive Winds Anticipated</u>
<u>Condition</u>	<u>Within</u>
I	12 hours or less
II	24 hours or less
III	48 hours or less

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IV

72 hours or less

b. Thunderstorm/Severe Thunderstorm Warning Conditions

(1) I - Destructive winds (35 knots or greater) accompanying the phenomena are imminent (within five nautical miles of the station and expected over the station within the hour) or are occurring. Associated tornado, lightning, torrential rain, several downbursts, sudden wind shifts and/or hail accompanying the phenomena are possible.

(2) II - Destructive winds accompanying the phenomena are expected in the general area within six hours. Associated lightning, tornado, torrential rain, severe downbursts, sudden wind shifts and/or hail are possible.

6. Setting CORs. Appropriate NASNI CORs will be set by the ODO upon being notified by the NAVPACMETOCFAC San Diego FDO of the issuance of a severe weather warning indication destructive winds (sustained or frequent gusts) for NASNI. If a COR is warranted:

a. The ODO shall:

(1) Immediately notify those persons and units indicated on the ODO's Severe Weather Notification List (enclosure (2)) of the COR, set valid time and expiration.

(2) Initiate severe weather measures as described in paragraph 7 of this instruction.

(3) Regularly consult with the NAVPACMETOCFAC San Diego FDO for updated weather conditions to revise (or cancel) CORs, as required.

b. The NAVPACMETOCFAC San Diego FDO will:

(1) Draft an IMMEDIATE precedence naval message, using the format in enclosure (3), to announce the COR set by the ODO. This message will be forwarded to the ODO for release and will be self-canceling.

(2) Ensure the Thunderstorm Warning or COR in effect is prominently displayed on the Weathervision and verbally briefed to all pilots requiring flight briefs either by phone or over the counter.

(3) Closely monitor the weather situation and immediately notify the ODO of any significant change affecting the Thunderstorm Warning or COR.

c. The Officer of the Day shall immediately advise (by phone or messenger) all departments, Naval Aviation Depot Officer of the Day, ships moored at NASNI, and other detachments or units not included above of the Thunderstorm Warning or COR.

d. The Command Duty Officer shall:

(1) Immediately notify the Commanding Officer and Executive Officer when COR I is set.

(2) Ensure the OOD and ODO are kept informed as to his/her whereabouts.

7. Severe Weather Measures. To prescribe precautionary action, one of the

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following measures will be taken by the ODO in conjunction with the setting of a COR:

a. Measure "D"

- (1) Be alert to any sudden change in weather.
- (2) Be prepared to put into effect other heavy weather measures on short notice.

b. Measure "C"

- (1) Take preliminary precautions by securing or tying down station aircraft, loose gear and equipment not under the immediate control of personnel on duty, which could be blown about or damaged by winds.
- (2) Make preliminary preparation for evacuation of aircraft as appropriate.
- (3) Outside of regular working hours, action is accomplished by personnel in a duty status. Duty personnel have the capability and the adequate security provisions for taking required action against sustained winds from 35 to 49 knots and against frequent gusts.

c. Measure "B"

- (1) Take action that will enable the entire station to be secured on short notice for forecasts of sustained winds from 50 to 63 knots.
- (2) Restrict shore leave and liberty to a maximum of 50 percent; all personnel subject to recall.
- (3) Be prepared to evacuate aircraft to a suitable divert field when ordered.

d. Measure "A"

- (1) Secure the station for sustained winds above 63 knots, taking action that will minimize danger to life and damage to property.
- (2) Retain personnel on board and recall those on liberty.
- (3) Launch aircraft as directed.

e. As a matter of routine, all departments will set Gale Condition IV, measure "D" each weekend. These measures will be established prior to the end of working hours on Friday or prior to the end of working hours preceding a holiday period.

8. Weather Measures Other than Severe. Due to its geographical location, NASNI does not normally experience winds of a severe nature (35 knots or greater) which result in the setting of a COR; however, as discussed in reference (b), thunderstorms are normally associated with wind shifts, lightning and hail which could pose a danger to personnel and property. In addition, sustained wind speeds below the 35 knot threshold can also cause damage to personnel and property. For these conditions, setting a COR is not required, but appropriate action by the ODO is warranted. The following actions will be taken by the ODO for the given condition:

a. Thunderstorms forecast with lightning and/or hail but winds less than 35 knots.

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(1) For Lightning

(a) Weapons Department Duty Officer (WDO) will monitor electric field gradient for any spikes or gradual rises to ensure that 2,000 volts per meter (VPM) is not exceeded. When the electric field potential reaches 1,500 VPM all ordnance operations will shut down.

(b) Weapons Department will shut down ordnance handling operations for bravo pier, red label area, ordnance facilities/magazines and motor vehicles. All magazines will be secured, motor vehicles parked in designated area, munitions on pier and red label area will be returned to magazines (time permitting) or staged as close to ship as possible. Only essential ordnance handling personnel will remain in immediate area of handling evolutions to secure operations.

(c) Ordnance handling operations may continue at the discretion of the Commanding Officer based on operational necessity when potential exceeds 2,000 VPM.

(d) Tenant Activity Duty Officers will shut down all ready service locker and aircraft ordnance handling operations upon notification from ODO.

(e) Tenant Activity Duty Officers may continue operations when notified by ODO.

(2) For hail. Ensure station aircraft are adequately secured or hangared.

(3) Inbound aircraft will be advised of possible wind shifts and/or down bursts associated with local thunderstorms.

(4) Regularly consult with the NAVPACMETOCFAC San Diego FDO for updated weather conditions to set or modify thunderstorm warnings, as required.

b. Small Craft Warning/Local Wind Advisory issued. When issued for water areas adjacent to NASNI, the ODO will notify the OOD and the Boats and Docking Division of the Operations Department. A Small Craft warning flag will be hoisted at staff, atop building 316.

9. Responsibility. Securing of the station for severe weather is an all hands responsibility. While each department/tenant activity is assigned responsibility for the personnel, buildings and property under its supervision, it is the duty of all departments/tenant activities to render assistance to each other, as needed. When warranted, setting of a COR requires prompt, deliberate action by all hands to properly safeguard the lives and property onboard NASNI.


D. F. STEUER

Distribution:
NASNIINST 5215.2V
Lists A, C, D, (Case I)

Stocked at:
Administration Department (Code 111)
NAS North Island
Box 357033
San Diego, CA 92135-7033

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WARNINGS

1. Criteria for wind warnings. Wind warning terminology, used commonly by the National Weather Service and U.S. Navy, follows.

a. Wind warnings associated with cyclonic circulation of non-tropical origin are expressed in the following terms:

<u>TYPE OF WARNING/ADVISORY</u>	<u>CORRESPONDING SUSTAINED WIND SPEED</u>
Local Wind Advisory	Sustained winds between 18 and 34 knots or frequent gusts greater than 24 knots over land areas.
Small Craft Warning	Sustained winds between 18 and 34 knots or frequent gusts greater than 24 knots over water areas.
Gale Warning	Sustained winds between 35 and 49 knots inclusive.
Storm Warning	Sustained winds of 50 knots or greater.

b. Hurricane wind warnings are issued by Naval Western Oceanography Center, Pearl Harbor, per the following criteria:

<u>TYPE OF WARNING/ADVISORY</u>	<u>CORRESPONDING SUSTAINED WIND SPEED</u>
Tropical Depression	Sustained winds up to 33 knots.
Tropical Storm	Sustained winds between 34 and 63 knots inclusive.
Hurricane	Sustained winds of 64 knots or greater.

c. Thunderstorm/Severe Thunderstorm Warning. Thunderstorms are small scale, local disturbances of short duration produced by cumulonimbus clouds and can be accompanied by one or more of the following:

(1) Strong gusts of winds which normally exceed 35 knots and occasionally reach intensities in excess of 100 knots. Winds exceeding 50 knots are considered severe thunderstorms.

(2) Lightning - the electrical discharge produced by lightning often poses a serious threat to equipment and installations.

(3) Thunder.

(4) Heavy rain - may result in flash flooding, a particular hazard in desert regions.

(5) Hail - Hailstones with diameter in excess of 3/4 inch are associated with severe thunderstorms and can cause damage to equipment and installations.

d. Tornado Warning. Tornadoes are the most destructive of all phenomena and when they occur, they are normally associated with severe thunderstorms.

Enclosure (1)

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NAVPACMETOCFAC San Diego does not issue a separate warning for tornadoes; however, they will be included in a Thunderstorm Warning if expected to occur. If conditions are present for the formation of tornadic activity in the area, the National Weather Service will issue the following:

(1) Tornado Watch - conditions are favorable for the formation of a tornado.

(2) Tornado Warning - a tornado has actually been sighted or indicated by a weather radar.

NOTE: The NAVPACMETOCFAC San Diego FDO will immediately notify the ODO if either of the above is issued.

Enclosure (1)

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SEVERE WEATHER BILL NOTIFICATION LIST

* ODO call in order listed to secure ordnance handling, fueling and defueling operations.

** Weapons Department Duty Office call in order listed to secure ordnance handling, fueling and de-fueling operations.

* NASNI CDO/OOD.....5-8123
* FUEL FARM.....5-7208
* WEAPONS.....5-7780/79
* FIREHOUSE #1.....5-6678
* COMNAVAIRPAC DO5-2017
* BOAT HOUSE5-4386
* AIR TERMINAL/TRANSIT LINE5-9530
* FWS (NASNI)ODO HOTLINE
* FWS (OLF IB)437-9407
* FLYING CLUB5-7307
* CUSTOMS5-8341
* BASI5-8256
* CFOD (C-12 OPS)5-8258

** COMSEACONTROLWINGPAC DO.....(VS 1).....5-1869***
** COMHSLWINGPAC DO.....5-5964
** COMHSWINGPAC DO (HS 10).....5-6601***
** COMHSLTACWINGPAC DO (HC 3).....5-5294/5-8196***
** COMHELWINGRES DO (HSL 84/HS 85).....5-7288/5-7218***
** COMPATWINGSDET.....5-7598/99
** AIMD PARALOFT.....5-6696/99
** FASOTRAGRUPAC WARNER SPRINGS.....5-4526/27
** FLTLOGSUPPRON (VRC 30).....5-6575
** NAVAVNDEPOT.....5-3711

*** After normal working hours (selected squadrons) will receive calls.

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WEATHER CONDITION MESSAGE FORMAT

UNCLASSIFIED

OTTOZYUW RUWFSGG---- -----UUUU--RUWFSUU

ZNR UUUUU

O -----Z APR 96 ZPW 182200Z APR 96

FM NAS NORTH ISLAND CA //30//

TO ALL COMMANDS AND ACTIVITIES NAS NORTH ISLAND CA

NAVAIRLOGOFF NEW ORLEANS LA//JJJ//

INFO COMNAVBASE SAN DIEGO CA//JJJ//

BT

UNCLAS //NO3145//

MSGID/GENADMIN/NAS NORTH ISLAND CA//

SUBJ/WEATHER CONDITION//

REF/A/DOC/NASNIINST 3145.1K/-/-//

AMPN/NASNI SEVERE WEATHER BILL//

RMKS/1. FOR FACSFAC SAN DIEGO CA: PASS TO ALL CV, LHA, LPH, LHD OPERATION IN
SOCAL OPAREA.

2. PER REF A, NAS NORTH ISLAND SETS _____ MEASURE ____ AT ____
Z.

3. THIS CONDITION VALID UNTIL _____ Z.

4. WINDS FORECAST:

5. RELEASED BY _____//

BT

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NNNN

Enclosure (3)