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**FLORIDA DEPARTMENT of
ECONOMIC OPPORTUNITY**

June 12, 2012

Mr. Steve McBride
Emergency Manager
Naval Air Station Key West
Post Office Box 9001
Key West, Florida 33040-9001

Dear Mr. McBride:

Pursuant to Rules 28-18.400(5)(a)7., 28-19.310(5)(a)2., and 28-20.140(5)(a)11., Florida Administrative Code, the Department, as the state's land planning agency, is directed to enter into a Memorandum of Understanding (MOU) with the local governments of the Florida Keys and the Florida Division of Emergency Management regarding the assumptions and inputs to be utilized for hurricane evacuation analysis in the Florida Keys. The assumptions and inputs will be utilized in the hurricane evacuation model in order to assess and determine the amount of development that is allowable in the Keys to be consistent with the 24-hour evacuation clearance time as established in Section 380.0552(9)(a)2., Florida Statutes.

The Department has been in the process of gathering and updating the necessary inputs to be included with the MOU that will be used in the hurricane evacuation model. In order to accurately depict the amount of development allowable in the Florida Keys, the Department has requested that Naval Air Station Key West (NAS Key West) provide data on the amount of units and vehicles which would participate in a hurricane evacuation event.

In an email dated August 8, 2008, you, acting as representative for NAS Key West in regards to hurricane evacuation, provided the following information:

- 1,986 uniformed personnel, Department of Defense civilians, and associated dependents would participate in an evacuation;
- 667 family units located at Truman Annex, Sigsbee Park, and Trumbo Point;
- 74 barracks located at Boca Chica;
- 171 bachelor's quarters;
- 6,460 registered vehicles, of only 819 vehicles would be participating in an evacuation scenario;
- 600 RV spots (between 65-100 RV spots regularly used during hurricane season);
- 25 live-abroads located at the Marina; and
- In regards to vacation rental units:
 - 309 units located at Boca Chica;
 - 340 units located at Truman Annex;

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- 272 units at Fly Navy located at Trumbo Point;
- 57 units (vacation townhomes) located at Trumbo Point; and
- 37 units (vacation trailers) located at Trumbo Point.

During a hurricane evacuation workshop on February 27, 2012, NAS Key West indicated the naval base would produce 2,025 evacuating vehicles and evacuate 4,000 personnel. Additionally, the Department conducted an analysis and found the following:

Location	Unit Type	Unit Number
Sigsbee Park	Duplex	521
Naval Branch Medical Clinic	Single-Family Home	5
Trumbo Point	Townhome	116
Peary Court	Townhome	157
Truman Annex	Townhome/Single-Family Home	91
Sigsbee Park	RV Spots	100
Boca Chica	Vacation Rental	309
Truman Annex	Vacation Rental	340
Trumbo Point	Vacation Rental	366

This provides a total of 890 dwelling units, 100 RV spots (during hurricane season), and 1,015 vacation rental units. This information was used to depict evacuating naval personnel and tourists during an evacuation scenario. On June 7, 2012, NAS Key West has indicated that there are 2,001 dwelling units associated with the naval base and 2,338 vehicles which would participate in a hurricane evacuation scenario. The Department appreciates the updated information that the naval base has provided for hurricane evacuation modeling purposes. However, for modeling purposes, the following information needs to be confirmed:

1. Calculation of the 2,001 dwelling units

As described, the Department conducted an analysis regarding the amount of dwelling units associated with the naval base and their relative location to be used for hurricane evacuation modeling. However, the 2,001 dwelling units do not coincide with the 890 dwelling units identified above. The Department requests that the naval base provide the different types of dwelling units that comprise the 2,001 dwelling units and how the dwelling units were counted.

2. Location of the 2,001 dwelling units

As shown in the Department's analysis above, the Department associated the number of dwelling units and type with a general location. For example, 5 single-family homes at Naval Branch Medical Clinic provides the ability to identify the general area in which these 5 dwelling units are found which is a level of detail needed for hurricane

Mr. Steve McBride, Emergency Manager

June 12, 2012

Page 3 of 3

evacuation modeling. The Florida Keys are made of 40 Traffic Evacuation Zones, or TEZs, which utilize block group data and boundaries from the US Census and American Community Survey. Each TEZ contains specific housing characteristics for those units analyzed by the US Census Bureau. Additionally, the hurricane evacuation model is sensitive to the amount and location of units. The Department requests that the naval base provide the general location of the dwelling units as shown above, or the address, as associated by unit type.

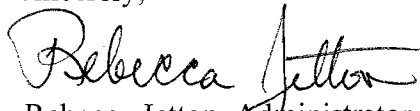
3. Evacuation of 2,338 vehicles

NAS Key West has recently indicated that 2,338 vehicles will evacuate during a hurricane evacuation scenario. However, this information does not provide where the vehicles are originating from and the unit type, such as group quarters or single-family home, which the vehicles are associated with. The Department requests that the naval base provide this information and what has been requested above at the earliest possible date.

The Department appreciates the information received from NAS Key West and would like to continue coordinating with the naval base to ensure that valid data are included with the hurricane evacuation analysis. Department staff would also like to request a phone conference with you, Ron Demes, and Ashley Monnier to make sure that all involved parties understand the information required for hurricane evacuation modeling purposes.

If you have any questions or information regarding the phone conference, please contact Rebecca Jetton at (850) 717-8494.

Sincerely,



Rebecca Jetton, Administrator
Areas of Critical State Concern

Enclosure(s): August 8, 2008 Email from Mr. Steve McBride

cc: Mr. Ron Demes, Chairman, Military Affairs Committee of Key West
Ms. Ashley Monnier, Installation Community Planning Liaison Officer, NAS Key West

Metcalfe, Kenneth (Dir-Tal-Env)

From: McBride, Steven D CIV NAS Key West, N92 [steven.d.mcbride@navy.mil]
Sent: Friday, August 08, 2008 3:05 PM
To: Metcalfe, Kenneth (Dir-Tal-Env)
Subject: RE: Hurricane Evacuation Data

Mr. Metcalfe,

Please see my responses to your questions following each question in the below email string. Hope this answers your questions satisfactorily.

v/r
Steve

-----Original Message-----

From: MetcalfeK@gtlaw.com [mailto:MetcalfeK@gtlaw.com]
Sent: Friday, July 25, 2008 16:42
To: McBride, Steven D CIV NAS Key West, N92
Subject: Hurricane Evacuation Data

Mr. McBride: This is a follow up to our conversation a few minutes ago. As I mentioned, I am working under contract with Monroe County to assist in refining the Florida Keys Hurricane Evacuation Model. As requested, I have included the emails below regarding my contract with Monroe County. If necessary, you can also contact Andrew Trivette, the Monroe County Growth Management Director at 289-2500 or Susan Grimsely, Asst. County Attorney, at 305-292-3470. .

My objective is to understand how many (if any) vehicles would evacuate using U.S. 1 from the military base and from military personnel/contractors due to a hurricane. If military evacuees (personnel or contractors) are staying in off-base housing or lodging, I would need to know that to avoid double counting them because I've already included all off-base housing and lodging in the model.

I would greatly appreciate your feedback on the following questions. If you would like, you could respond by email or we could discuss by phone. My contact info is at the end of this email. I already have a good idea about some of these questions, but I am still asking for verification based on your knowledge.

1) Does the military evacuate when a hurricane threatens? If so, how many military personnel evacuate by vehicle? How many by air? Do you have an estimate of how many vehicles would be evacuated. Again, this should not including off base military personnel and contractors, unless they are evacuating military vehicles and not their own vehicles. I noticed the NAS website lists 895 military apartments. Can you verify how many are occupied and whether the occupants evacuate? How are barracks personnel evacuated? Do they use military trucks? Any information breaking down the units and personnel by category would be helpful. We would like to understand how many vehicles are likely to evacuate by road and how that estimate is derived based on the categories listed in these questions. Or, if you figure that out in a different way, please explain.

NAS Key West will evacuate during any Hurricane that is anticipated to be greater than Category 2. Total number of individuals evacuating by ground conveyance is 1447 military/dependents and 539 DOD Civilians/dependents (these numbers are those who reside in military housing only). There are 667 family housing units located at three separate locations (Truman, Trumbo, Sigsbee). During an evacuation all are required to evacuate military housing. Those single sailors residing in Barracks(74)and geographical bachelors (171)will evacuate using their own vehicles or riding with a friend. NAS Key West has a total number of 6460 registered vehicles but this number is inclusive of those residing in the community. I do not have a break down of the number of vehicles in military housing

but I would think you could average the number to 2 per housing unit or 1334 (estimated). If the evacuation were done by 1 vehicle per family I would estimate 579 plus 240 for the single sailors.

I am not sure what you mean by categories but the numbers 1447 includes: 447 Military Members, 412 Spouses, 588 Children. 539 includes: 220 DOD Civilians, 132 Spouses, 187 children. We do not evacuate Military vehicles other than Aircraft.

2) How many hours in advance of tropical force winds would the military evacuate by road? 72 hrs? 48 hrs? 36 hrs? I am trying to confirm whether the military would evacuate at the same time as tourists or later during the main resident evacuation. Would they evacuate during the day or at night? At what hour would they typically start and end the evacuation? Do you have any records that documented how long their evacuation required to reach Florida City?

NAS Key West attempts to order an evacuation that commences during daylight hours (early morning). Primary consideration is the onset of 35 knot winds along the evaluation corridor. (i.e. a storm moving east to west we would be looking at the onset of 35 knot winds in Key Largo for a decision point 24-36 hours prior for the evacuation order). There are a lot of variations in the amount of time for evacuation as reported during Hurricane Wilma. Those who left immediately upon order saw 2.5 to 3 hour time. Those who had waited longer reported 5 hour travel time.

3) I noticed from the NAS website that military lodging is available in the Keys. Can you provide similar information about visitors? How many rooms? What would be the average and peak occupancy during hurricane season? When do they evacuate? How many vehicles would be evacuated?

NAS Key West will begin ordering all visitors to include those in the RV Parks to begin evacuation 48-72 hours prior to the onset of destructive winds. We have a total of 881 available rooms broken down as follows:

309 at Boca Chica, 340 at Truman and 272 at the Fly Navy on Trumbo. Additionally there are 57, 3 bedroom town home vacation rentals and 37, 2 bedroom trailers. The occupancy rate is usually at about 40% during the week 70% on weekends and 100% during the big events like bike week, fantasy fest etc.. RV Park has a capacity of 600 RVs but during Hurricane season there are typically 65 in the early part of the season going up to 100 toward the end of the season (Fantasy Fest). There are also 25 boats in the Marina and those occupants are included in the total number of evacuees.

4) How does the severity of the hurricane (Category 1...5) affect these operations? Does the timing, magnitude, etc. change based on the severity?

Again we only evacuate during a high Cat 2 or above. The key is the onset of 35 knot winds along highway one. All Navy personnel are required to evacuate during an order. We have a total of approximately 8500 personnel that will evacuate. This includes all of the tenants with associated dependents. Since the Navy pays the personnel to evacuate there is generally not a problem with getting them to leave. During an evacuation there are only 70 personnel that remain in Key West.

In responding to these questions, please feel free to add any information that would be helpful in achieving our objective. I would greatly appreciate your assistance in providing this information. My contact info:

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From: Grimsley-Susan [mailto:Grimsley-Susan@monroecounty-fl.gov]
Sent: Tuesday, June 03, 2008 5:05 PM
To: Metcalf, Kenneth (Dir-Tal-Env); Trivette-Andrew
Subject: RE: Contract Amendment