

# TRANSMITTAL

TO: Tom Pridgen

RE: Hurricane Resistant Housings

FROM: Mike Davis

Type of Update:

New Criteria

Addendum

Lessons Learned

DATE: 5/03/04

I am sending you  Attached  
 Under Separate Cover

the following item(s) for review and concurrence:

COPIES	DATE	No. of Sheets	DESCRIPTION
1	4/22/04	1	Hurricane Resistant Housings for Exterior Stand-by Generators

**REMARKS:**

See Attached Memorandum.

Concurrence: Michael J. Davis  
Michael Davis, P.E., Program Manager

5-3-04  
Date

Concurrence: Thomas M. Pridgen  
Thomas Pridgen, P.E., Assistant Turnpike Design Engineer

5/10/04  
Date



*Operates the statewide  
Turnpike System as  
part of the Florida  
Department of  
Transportation*

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Governor

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Secretary of  
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## MEMORANDUM

**To:** Kevin Hoeflich, Chris Lory, Alfonso Chao, Becky Bolan, Chuck Elmore, Jason Stewart, Jeffery Jerrels, Bryan Gant, Bill Yeager, Mike Van Der Heyden, Brian Kirwan, Peter Kühne, Ashley Carpenter, John Provost-Heron, Agnes Spielmann, Prasan Purisudh

**From:** William F. Sloup, P.E., Turnpike Design Engineer *WFS*

**Date:** April 22, 2004

**Copies:** Nancy Clements, Donnie Brackins, Frank Elmore, Massoud Moradi, John Morrison, Larry Hayduk and Mike Davis

**Subject:** Hurricane Resistant Housings for Exterior Stand-by Generators

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Please be guided by the information below:

All project managers are requested to coordinate this information with design consultants doing business with Florida's Turnpike Enterprise. Immediately implement for all applicable projects in the design and construction stage.

The Turnpike Enterprise has re-evaluated its position on provision of reinforced Hurricane resistant enclosures for exterior generators. These were originally required to reduce damage from large missile impact and to prevent portions of the generator housings becoming airborne. Currently the generator industry manufacturing standards make it very difficult to mandate the upgraded Turnpike Enterprise design requirements, therefore the Turnpike Enterprise will now accept standard housings as produced by the various acceptable generator manufacturers, that are flat strapped in place to prevent the housing or portions of the housing becoming airborne.

The design consultants shall evaluate shop drawing approved generators and provide adequate flat metal stainless steel straps, anchors and accessories secured to the concrete base slab of the generator to resist the applicable building code design wind forces. These straps shall be located to clear all access doors, hatches or otherwise any external appurtenance required for maintaining and operating the generator. The straps once installed shall be considered permanent, or until directed otherwise.

WFS/jph/lmc