

## PMFermiCOLPEm Resource

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**From:** Berrios, Ilka  
**Sent:** Friday, December 04, 2009 1:33 PM  
**To:** LaShawn G Green; Peter W Smith; peteronn@dteenergy.com  
**Cc:** FermiCOL Resource; Kevern, Thomas  
**Subject:** RE: DRAFT RAIs Chapter 3  
**Attachments:** RAI 4097.doc; RAI 4096.doc

All,

Attached files are DRAFT RAIs related to FSAR section 3.5.1. Please review them and let me know if a call is needed to clarify any of these questions. If we don't hear from you by Wednesday, we'll assume that a call is not needed and the RAI letter will be issued.

Any questions, please let me know.

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**Hearing Identifier:** Fermi\_COL\_Public  
**Email Number:** 715

**Mail Envelope Properties** (87B1F1BDFE5A554CA9DC5EAA75EB6D0D15B4D685AA)

**Subject:** RE: DRAFT RAIs Chapter 3  
**Sent Date:** 12/4/2009 1:33:25 PM  
**Received Date:** 12/4/2009 1:33:27 PM  
**From:** Berrios, Ilka

**Created By:** Ilka.Berrios@nrc.gov

**Recipients:**

"FermiCOL Resource" <FermiCOL.Resource@nrc.gov>  
Tracking Status: None  
"Kevern, Thomas" <Thomas.Kevern@nrc.gov>  
Tracking Status: None  
"LaShawn G Green" <greenl@dteenergy.com>  
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"Peter W Smith" <smithpw@dteenergy.com>  
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Tracking Status: None

**Post Office:** HQCLSTR01.nrc.gov

<b>Files</b>	<b>Size</b>	<b>Date &amp; Time</b>
MESSAGE	477	12/4/2009 1:33:27 PM
RAI 4097.doc	30714	
RAI 4096.doc	30202	

**Options**

**Priority:** Standard  
**Return Notification:** No  
**Reply Requested:** No  
**Sensitivity:** Normal  
**Expiration Date:**  
**Recipients Received:**

Request for Additional Information No. 4097 Revision 0

Fermi Unit 3  
Detroit Edison  
Docket No. 52-033  
SRP Section: 03.05.01.06 - Aircraft Hazards  
Application Section: 3.5.1.6

QUESTIONS for ESBWR/ABWR Projects 1 (NGE1)

03.05.01.06-\*\*\*

RG 1.206 and NUREG-0800 Section 3.5.1.5 provides guidance regarding the information that is needed to ensure potential hazards in the site vicinity are identified and evaluated to meet the siting criteria in 10 CFR 100.20 and 10 CFR 100.21. In Fermi 3 COL FSAR, Section 2.2.3.1.3.1, the applicant presented the aircraft impact probability of  $2.3 \times 10^{-7}$  per year from the Mills Field Airport. No details regarding input data and assumptions were presented to support the analysis in calculating the aircraft impact frequency for Mills Field Airport and Detroit Metropolitan Wayne County Airport. Provide the data and assumptions (i.e., effective area of plant, in-flight crash probability, annual flight operations projected to the end life operational period of the plant) used for Airports and Airways analyses. Also provide the basis for the use of effective area of 0.030 sq.mi and estimated average number of flights of 60179 per year for the airways.

Request for Additional Information No. 4096 Revision 0

Fermi Unit 3  
Detroit Edison  
Docket No. 52-033  
SRP Section: 03.05.01.05 - Site Proximity Missiles (Except Aircraft)  
Application Section: 3.5.1.5

QUESTIONS for ESBWR/ABWR Projects 1 (NGE1)

03.05.01.05-\*\*\*

RG 1.206 and NUREG-0800 Section 3.5.1.5 provides guidance regarding the information that is needed to ensure potential hazards in the site vicinity are identified and evaluated to meet the siting criteria in 10 CFR 100.20 and 10 CFR 100.21. A postulated failure of a turbine from Fermi unit 2 could result in a missile representing an external hazard to the safe operation of Fermi unit 3, a scenario that has not been addressed in the COL application, Part 2, FSAR for Fermi 3. Provide a discussion on the impact a potential missile from Unit 2 turbine would have on Unit 3.