

# **Nuclear Information and Resource Service**

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April 22, 2005

William Reckley  
Petition Manager (10 CFR 2.206)  
Nuclear Reactor Regulation  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555-0001

By email c/o Donna Skay, Petition Manager, NRR Division of Licensing Project  
Management: dms6@nrc.gov

## **Supplement 1 to Requested Emergency Enforcement Action (10 CFR 2.206) Filed February 23, 2005 Regarding Emergency Backup Power To Emergency Notification Systems**

Mr. Reckley:

On behalf of the petitioners filing the February 23, 2005 Emergency Enforcement Petition (URL attached) requesting NRC to issue generic communications to all Part 50 operating licensees to assure the reliability of power to Emergency Notification Systems and Orders to require licensees to install and maintain Emergency Notification System backup power sources independent of the electrical grid, NIRS submits the following supplemental materials.

The attached JPEG Image files are photographs recently taken of a photovoltaic powered emergency siren located in the Warren Dunes State Park in Sawyer, Michigan within the 10-mile Emergency Planning Zone for the D.C. Cook nuclear power station in Bridgman, Michigan. The siren is maintained to be operable independent of power from the electrical grid system.

The petitioners submit this as supporting evidence demonstrating that existing emergency sirens can be back fitted to assure operation independent of vulnerable electric grid systems. Currently, the electric grid is the sole power system to many public Emergency Notification Systems around nuclear power stations which can result in the simultaneous failure of emergency notification systems during electrical grid disturbances and an emergency at nuclear power stations resulting from an accident and potentially an act of sabotage.

The petitioners do not necessarily endorse this specific design of photovoltaic array as applicable to all emergency notification systems at all nuclear power stations. Petitioners do not necessarily represent this specific design of photovoltaic array as adequate for all

operability requirements of siren systems and other supporting infrastructure for other aspects of emergency notification systems for the duration of an emergency situation.

Thank you,

Paul Gunter, Director  
Reactor Watchdog Project  
NIRS

Attachments:  
JPEG Images

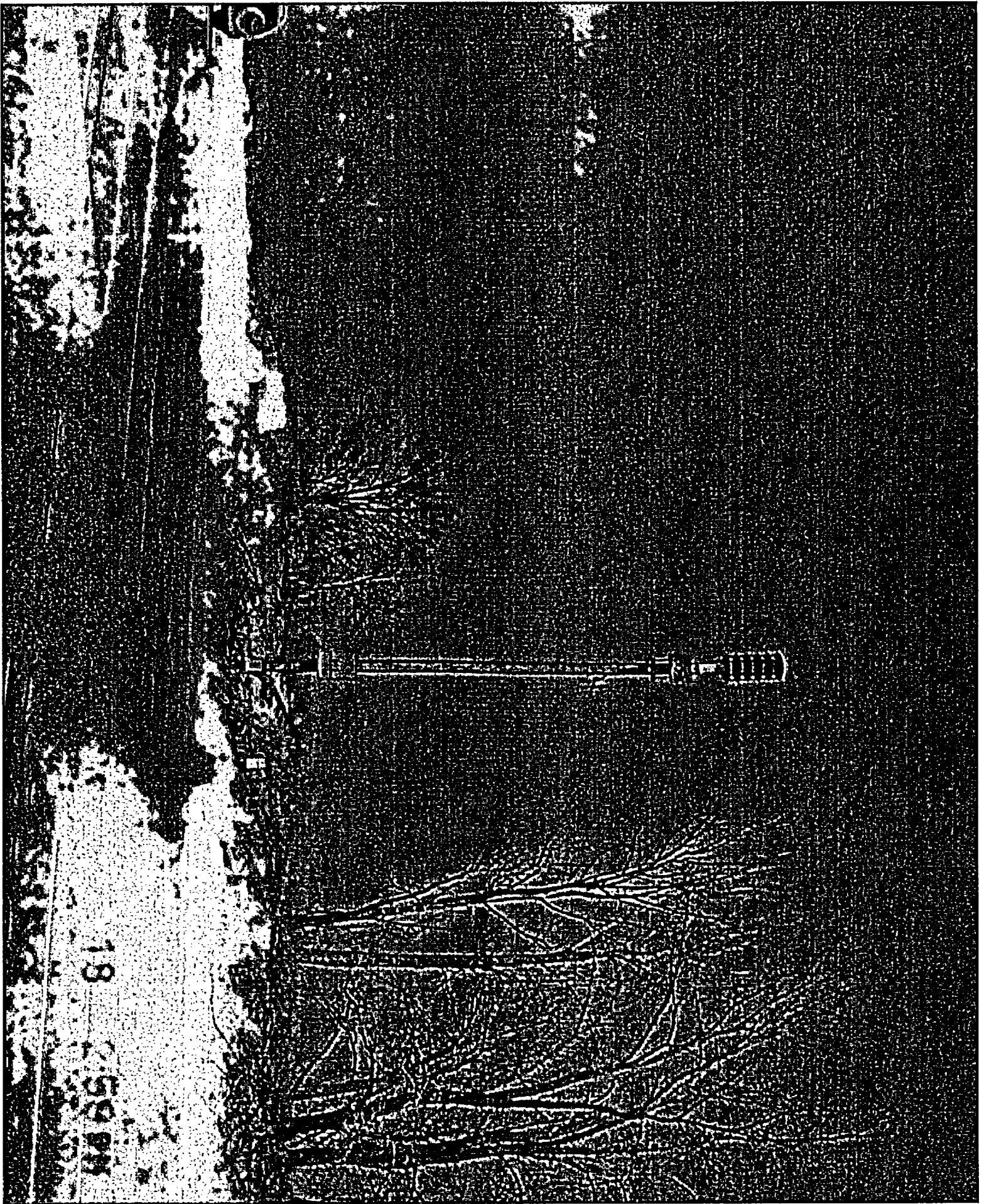
1) Photograph 1 Photovoltaic powered emergency siren at Warren Dunes State Park, Sawyer, Michigan <epcookpvsiren1.pdf>

2) Photograph 2, siren, Warren Dunes State Park, Sawyer, Michigan <epcookpvsiren2.pdf>

3) Photograph 3, siren, Warren Dunes State Park, Sawyer, Michigan <epcookpvsiren3.pdf>

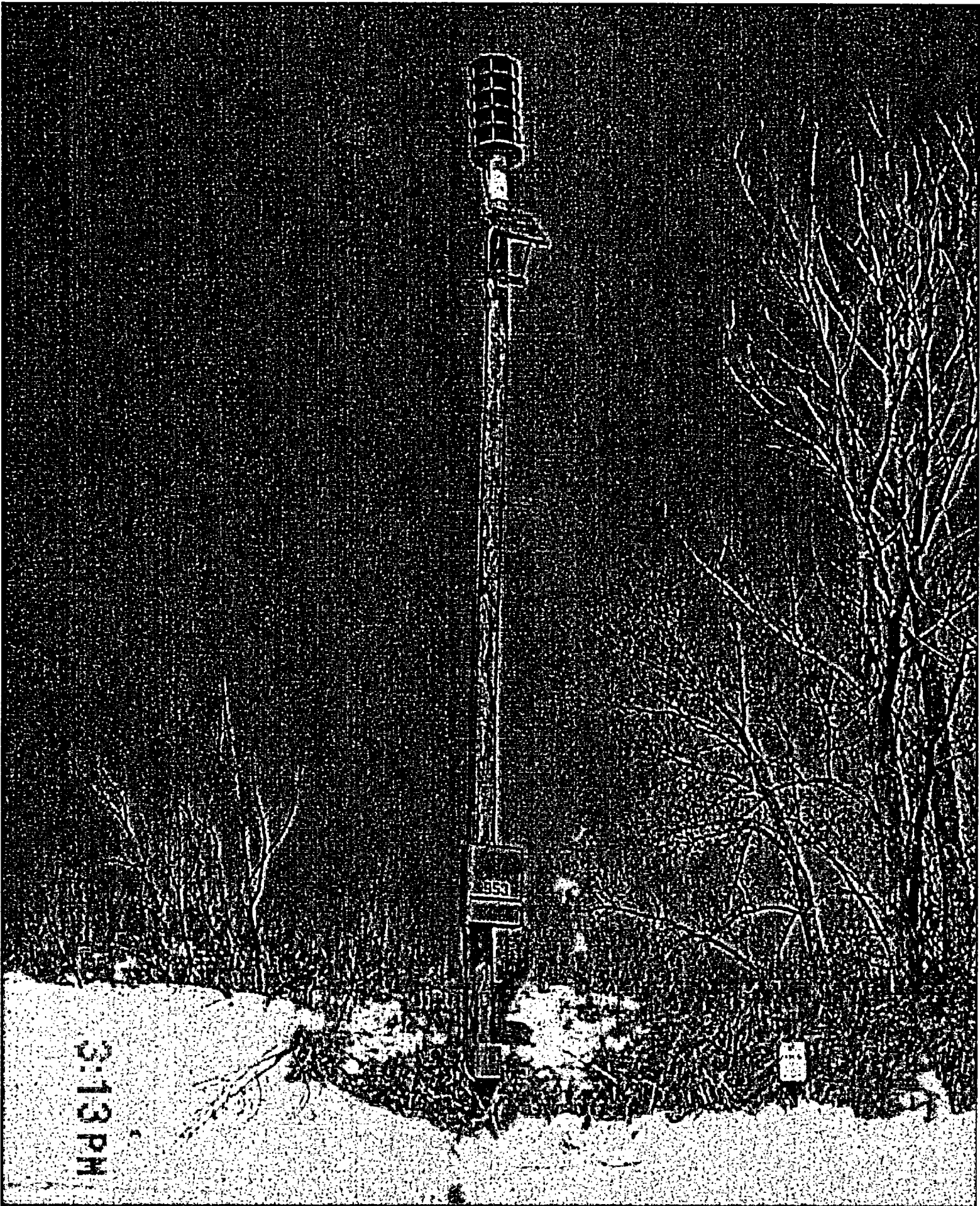
Cc:  
Petitioners

The February 23, 2005 emergency enforcement petition to US NRC and requested actions may be viewed at:  
< <http://www.nirs.org/reactorwatch/emergency/ep2206petitionsirens02232005.pdf> >



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