

③ 66 FR 48489
9/20/01

October 23, 2001
854 Henley Place
Charlotte, NC 28207
(704) 375-4342

RECEIVED
OCT 23 16 PM 1:28
Nuclear and Environmental
Division

Jim Wilson
U.S.NRC 011F-1
Washington, DC 20555

Dear Mr. Wilson:

As spokesman for intervenor Carolina Environmental study group for both construction permit and operating license proceedings for Duke's McGuire and Catawba plants I should have liked to attend the meetings in Rock Hill on the present date. However my health, I'm 86, did not permit. I would be particularly obliged if these remarks could be given consideration in the matter of the 20 year license extensions for these plants. I would like to encourage the consideration by staff of the following concerns.

1. Correct assessment of reactor vessel integrity. The reactor is currently limited to 200 refuelings, i.e. cycles of heating and cooling. It is subjected to the stress of internal pressure and to stresses due to the thermal gradients from inside to outside making for a differential in thermal expansion. Fatigue is the term used to characterize the losses in tensile properties due to repeated cycles of stress. Tensile property losses are also caused by irradiation from the reactor fuel.

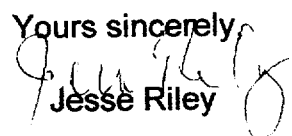
Coupons of the reactor metal are placed inside the reactor to monitor tensile property losses. But they are *not* subject to stress fatigue. As a result they do not accurately reflect the tensile properties of the fatigue--subjected reactor.

2. The reactor stud bolts are exposed to greater stress than the reactor vessel. Are they replaced at refuelings? Are they the same material as the vessel? On what evidence are the tensile properties of the stud bolts based?

3. Terrorists. The media point to the 5 foot thickness of reactors as adequate to resist the impact of a large airplane. The ice condenser containments are much thinner. What impact could they sustain?

Has a risk assessment been made of the effect of an airplane-delivered bomb or rocket of damage to the transformer yard, loss of AC; to the fuel pool? Loss of pool cooling could result in how much radiation release and loss of life? What is the remaining capacity of these pools expressed in years of operation?

Yours sincerely,


Jesse Riley

Template = ADM-013

E-RTDS = ADM-03
add - J. Wilson (shw1)

received 1/9/02

50-413/414
50-369/370

October 23, 2001
854 Henley Place
Charlotte, NC 28207
(704) 375-4342

Jim Wilson
U.S.NRC 011F-1
Washington, DC 20555

Dear Mr. Wilson:

As spokesman for intervenor Carolina Environmental study group for both construction permit and operating license proceedings for Duke's McGuire and Catawba plants I should have liked to attend the meetings in Rock Hill on the present date. However my health, I'm 86, did not permit. I would be particularly obliged if these remarks could be given consideration in the matter of the 20 year license extensions for these plants. I would like to encourage the consideration by staff of the following concerns.

1. Correct assessment of reactor vessel integrity. The reactor is currently limited to 200 refuelings, i.e. cycles of heating and cooling. It is subjected to the stress of internal pressure and to stresses due to the thermal gradients from inside to outside making for a differential in thermal expansion. Fatigue is the term used to characterize the losses in tensile properties due to repeated cycles of stress. Tensile property losses are also caused by irradiation from the reactor fuel.

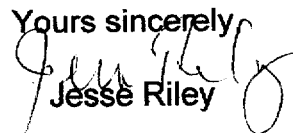
Coupons of the reactor metal are placed inside the reactor to monitor tensile property losses. But they are *not* subject to stress fatigue. As a result they do not accurately reflect the tensile properties of the fatigue--subjected reactor.

2. The reactor stud bolts are exposed to greater stress than the reactor vessel. Are they replaced at refuelings? Are they the same material as the vessel? On what evidence are the tensile properties of the stud bolts based?

3. Terrorists. The media point to the 5 foot thickness of reactors as adequate to resist the impact of a large airplane. The ice condenser containments are much thinner. What impact could they sustain?

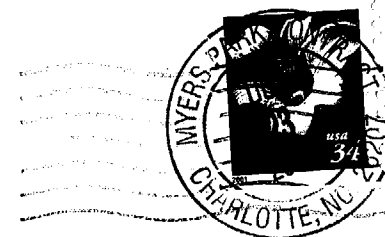
Has a risk assessment been made of the effect of an airplane-delivered bomb or rocket of damage to the transformer yard, loss of AC; to the fuel pool? Loss of pool cooling could result in how much radiation release and loss of life? What is the remaining capacity of these pools expressed in years of operation?

Yours sincerely,


Jesse Riley

A085

R Jess Riley
854 Henley Pl
Charlotte, NC 28207-1616



Jain Valsani
U.S. ARCC 011 F-1
Washington
DC

20555

