

A-47

Kusnick, Joshua

From: Csontos, Aladar
Sent: Wednesday, September 05, 2012 3:29 PM
To: Dion, Jeanne
Subject: Re: Research Assistance Request

Ok. We can move down to .2

From: Dion, Jeanne
To: Csontos, Aladar
Sent: Wed Sep 05 15:14:17 2012
Subject: RE: Research Assistance Request

AI- I spoke to Stu about this. Any way you can change it to be less than 0.2 FTE (300 staff hours)?
There are also some typos that need to be corrected. The package is on your desk.

Jeanne

From: Csontos, Aladar
Sent: Wednesday, September 05, 2012 2:23 PM
To: Richards, Stuart
Cc: Case, Michael; Tregoning, Robert; Dion, Jeanne
Subject: Re: Research Assistance Request

To be honest, that number was a shot in the dark. We really don't know how much it will really be and we won't until we have our first mtgs with FANC and industry for Gary's effort. I see two mtgs for Carol and Mark.

Can we reduce the amount of time to get this approved by management and then we revisit the UNR for later when we get our pencil sharpened.

From: Richards, Stuart
To: Csontos, Aladar
Cc: Case, Michael; Tregoning, Robert; Dion, Jeanne
Sent: Wed Sep 05 14:10:39 2012
Subject: RE: Research Assistance Request

AI

I'm reviewing our response back to Pat Hiland on their Research Assistance Request for Doel. In general, it looks good.

The problem is that we estimate at least 0.6 FTE to do the work.

The threshold for doing the work under a Research Assistance Request is a maximum of 0.2 FTE (300 hours).

If I'm reading the Office Instruction right, it looks like we have to kick it up to a User Need.

Your thoughts?

B/140

Stu

From: Hiland, Patrick

Sent: Monday, August 27, 2012 3:42 PM

To: Case, Michael

Cc: Richards, Stuart; Fairbanks, Carolyn; Rosenberg, Stacey; Cheok, Michael; Hardies, Robert; Dorman, Dan; Boger, Bruce; Evans, Michele

Subject: Research Assistance Request

The Office of Nuclear Reactor Regulation (NRR), Division of Engineering is requesting that the Office of Nuclear Regulatory Research (RES), Division of Engineering provide research assistance to assess the implications of the indications discovered in the Doel 3 reactor pressure vessel forgings to domestic reactor pressure vessel forgings. Specifically, NRR is requesting technical assistance in the areas of nondestructive examination (NDE) and deterministic and probabilistic fracture mechanics

In the area of NDE, NRR request technical expertise to assess the procedures, techniques, equipment, standards, qualifications, inspections, acceptance criteria and other relevant NDE variables used to examine the Doel 3 reactor pressure vessel forgings. This assistance may include contact with the licensee (Doel 3), the Belgian nuclear regulatory authority and possibly contractors. Travel to Belgium may also be necessary.

In the area of fracture mechanics, NRR requests assistance to support the Belgian regulator, FANC. FANC has requested the participation of Dr. Mark Kirk in an expert peer review panel. The peer review panel would assist the regulator in assessing the deterministic and probabilistic fracture mechanics analyses being prepared by the licensee for Doel 3. Telephone, video conference, and in-person meetings in Belgium would likely be necessary for this effort.

Also in the area of fracture mechanics, NRR requests assistance to perform analyses related to the implications of similar indications (to Doel 3) in domestic reactor pressure vessel forgings. This effort is currently less well defined. The industry has proposed performing both deterministic and probabilistic fracture mechanics analyses of generic reactor pressure vessel forgings with indications similar to those discovered in Doel 3. If the industry performs these analyses, RES would perform confirmatory analyses. In the event that industry did not perform analyses of hypothetically flawed vessels, this request would be for RES to perform research to verify the adequacy of current ASME Section III acceptance criteria for laminar flaws in reactor pressure vessel forgings by performing appropriate deterministic or probabilistic fracture mechanics analyses.