MFFFPEm Resource

From: Christopher Tripp
Sent: Thursday, November 15, 2007 2:00 PM
To: Craig Hrabal
Subject: Re: MOX Review

It's been a while since I worked with MCNP. You mean the surface orientation is opposite of the usual mathematical convention (positive is outward)?
That might explain why I keep having to remind myself of what sense the surface is--it's not easy to keep straight.

>>> Craig Hrabal 11/15/2007 1:55 PM >>>
It's actually the opposite of MCNP, which does it they way most people think (i.e., vectors). This was a complaint I had about KENO-VI when it came out.

>>> Christopher Tripp 11/15/07 1:38 PM >>>
Yes, but I haven't used KENO-VI that much. The media card reminds me of MCNP.

The form is: "MEDIA 3 1 2 -1"

3 = material 3 in the CSAS input
1 = bias ID. Basically, it's always 1
+2 = the space inside region #2
-1 = the space outside region #1

so this means "fill the space inside region 2 but outside region 1 iwth material 3"
Trying to put two different materials in the same space causes errors, which is why you need to specify -1.
Also if you have a region of space with no material defined, you get an error (I think this happens during neutron tracking).

Hope that helps.

>>> Craig Hrabal 11/15/2007 1:28 PM >>>
I also don't know much about using the MEDIA card. Have you used it?

>>> Christopher Tripp 11/15/07 1:24 PM >>>
That's interesting. Good idea to ask Steve--and thanks for looking at this. What I'm going to do is check my input against the file they gave me last week (I only have a hard copy) and see if I can get that to run. If I can't get their deck to run, then that raises an interesting question.

>>> Craig Hrabal 11/15/2007 1:09 PM >>>
Chris,

I was able to look at the input deck in KENO3D, with or without the CHORDs that were specified for the WEDGE in the input. However, running it, it didn't like the CHORDs and ignored them. But, it still didn't run. I have no idea why, since I don't know much about using wedges in SCALE. When I look at the input params for a WEDGE, it doesn't even specify that you can use a CHORD. Perhaps we can get Steve Bowman to explain this.

Craig

>>> Christopher Tripp 11/09/07 4:16 PM >>>
Attached are 3 files:

(1) The Meeting Summary for yesterday's on-site review (for your input)

(2) The table of opem items--don't feel compelled to do anything with this, if you have your own system. This is the system I use for my own issues (and some of yours, that I thought of), to keep track, but it is just FYI.

(3) The electrolyzer input deck--this is the one I cribbed from them last time. I do have the input deck they handed me this time (but not electronically yet), so don't knock yourself out trying to do this.

I also am working on a draft SER, but so far it just includes the ISA related stuff (there's too many RAIs on Chapter 6 to make it worthwhile trying to write that yet). I will send this to you also when it's a little more complete--we'll have to think if we want to do our own and try to merge them later, or how otherwise to ensure we can write our sections of the SER independently.

Didn't get a chance to do a highlight. We'll definitely have to put one in for next week as I think we're making very good progress,

Chris

Hearing Identifier: MixedOxideFuelFabricationFacility_Public
Email Number: 15

Mail Envelope Properties (D841D501B2C4D244B75AB897F70C1494251E4B2DBD)

Subject: Re: MOX Review
Sent Date: 11/15/2007 2:00:17 PM
Received Date: 11/15/2007 2:00:17 PM
From: Christopher Tripp

Created By: Christopher.Tripp@nrc.gov

Recipients:
"Craig Hrabal" <Craig.Hrabal@nrc.gov>
Tracking Status: None

Post Office: HQCLSTR01.nrc.gov

Files	**Size**	**Date & Time**
MESSAGE	3184	11/15/2007 2:00:17 PM

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