

From: <GrayStarGenesis@aol.com>
To: <RJT@nrc.gov>
Date: 09/05/2006 12:42:14 PM
Subject: RE: Note to File, Docket 030-36974 –Pa’ina Hawaii, LLC, Meeting Notes of 8/22/06

RE: Note to File, Docket 030-36974 – Pa’ina Hawaii, LLC, Meeting Notes of 8/22/06

Dear Mr. Torres:

I have reviewed your meeting notes of the August 22, 2006 meeting at CHL Systems in Souderton, PA. I would like to take this opportunity to correct some technical errors in the notes. The following are corrections and/or clarifications that I believe provide a more accurate reflection of the meeting:

Item #3, clarification –

There are several companies that purport to design and manufacture irradiators. To my knowledge, none of these companies have sold irradiators in the United States. Also, many companies and/or countries have installed irradiators of their own design. That being said, Nordion and GRAY*STAR are the only two companies that we know of that are actively selling irradiators to third parties at this time.

Item #5, correction & clarification –

There are several “door type”, Category IV, irradiators in use throughout the world of varying design. Per our discussions, a “door type” irradiator is defined as an irradiator that IF the source is in the irradiate position and IF the door, (an integral part of the shield), is open for any reason, the primary shielding of the irradiator would be compromised. Thus, the safety of this type of unit is solely dependent on interlocks and training. The unit is not “inherently safe” to the public.

This type of irradiator differs greatly from most Category IV irradiators that employ a labyrinth or maze. The use of a labyrinth or maze on a Category IV irradiator ensures inherent public safety independent from interlocks and training. This common type of Category IV irradiator IS inherently safe to the public.

In the US, I believe there is only one "door type" irradiator used in commercial processing. It is located in California. One unit has operated in New Jersey in the past, but has been decommissioned. I believe there also was one located in Texas, but to my knowledge it no longer exists. India has at least one "door type" irradiator. Belgium has at least two "door type" irradiators. I also have reason to believe that one or more of this type of irradiator exists in China.

Item #7, correction –

The irradiator design is inspected by the source manufacturers to make sure that the irradiator equipment will not damage their sources that are under warranty.

Item #8, correction –

A. – The sources are stored in helium and kept underwater inside a plenum.

Item #11, correction —

C. – The “bells” that contain the product are filled with air. The “plenum” that contains the sources is filled with helium.

I thought it was a very productive meeting. I proffer these comments to assure the technical accuracy of the information in your file.

Sincerely,

Russell N. Stein
Vice President
GRAY*STAR, Inc.

Mail Envelope Properties (44FDB6DE.2AF : 15 : 8879)

Subject: RE: Note to File, Docket 030-36974 -Pa'ina Hawaii, LLC, Meeting
Notes of 8/22/06
Creation Date 09/05/2006 12:41:24 PM
From: <GrayStarGenesis@aol.com>
Created By: GrayStarGenesis@aol.com

Recipients

nrc.gov
ARL_PO.ARL_DO
RJT (Roberto Torres)

Post Office
ARL_PO.ARL_DO

Route
nrc.gov

Files	Size	Date & Time
MESSAGE	2964	09/05/2006 12:41:24 PM
TEXT.htm	10197	
Mime.822	16030	

Options

Expiration Date: None
Priority: Standard
ReplyRequested: No
Return Notification: None

Concealed Subject: No
Security: Standard

Junk Mail Handling Evaluation Results

Message is eligible for Junk Mail handling
This message was not classified as Junk Mail

Junk Mail settings when this message was delivered

Junk Mail handling disabled by User
Junk List is not enabled
Junk Mail using personal address books is not enabled
Block List is not enabled

From: Roberto Torres
To: GrayStarGenesis@aol.com
Date: 09/05/2006 12:56:32 PM
Subject: RE: Note to File, Docket 030-36974 -Pa'ina Hawaii, LLC, Meeting Notes of 8/22/06

I will make the appropriate corrections to the meeting minutes and will reissue a corrected version in ADAMS. Thanks for bringing this matter to my attention.

Roberto J. Torres
 Senior Health Physicist
 U.S. Nuclear Regulatory Commission, Region IV
 Division of Nuclear Materials Safety
 Nuclear Materials Licensing Branch
 611 Ryan Plaza Drive, Suite 400
 Arlington, Texas 76011
 Telephone 817-860-8189
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 rjt@nrc.gov

>>> <GrayStarGenesis@aol.com> 09/05/2006 12:41 PM >>>

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Mail Envelope Properties (44FDBA50.A74 : 18 : 64234)

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Creation Date 09/05/2006 12:56:32 PM
From: Roberto Torres
Created By: RJT@nrc.gov

Recipients	Action	Date & Time
aol.com GrayStarGenesis (GrayStarGenesis@aol.com)		

Post Office	Delivered	Route
	Pending	aol.com

Files	Size	Date & Time
MESSAGE	6022	09/05/2006 12:56:32 PM

Options

Auto Delete:	No
Expiration Date:	None
Notify Recipients:	Yes
Priority:	Standard
ReplyRequested:	No
Return Notification:	None

Concealed Subject:	No
Security:	Standard

To Be Delivered:	Immediate
Status Tracking:	Delivered & Opened