

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT																
NATURE OF CONVEYANCE:	ASSIGNMENT																
CONVEYING PARTY DATA																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr><td>William Earl Russell II</td><td>12/21/2009</td></tr> <tr><td>Heather J Hatton</td><td>12/09/2009</td></tr> <tr><td>Melissa Allen</td><td>12/09/2009</td></tr> <tr><td>Melissa L. Hladik</td><td>12/09/2009</td></tr> <tr><td>Samuel John Lafountain</td><td>12/09/2009</td></tr> <tr><td>Luis Alberto Torres</td><td>02/25/2010</td></tr> <tr><td>Erick W Dittmer</td><td>12/09/2009</td></tr> </tbody> </table>		Name	Execution Date	William Earl Russell II	12/21/2009	Heather J Hatton	12/09/2009	Melissa Allen	12/09/2009	Melissa L. Hladik	12/09/2009	Samuel John Lafountain	12/09/2009	Luis Alberto Torres	02/25/2010	Erick W Dittmer	12/09/2009
Name	Execution Date																
William Earl Russell II	12/21/2009																
Heather J Hatton	12/09/2009																
Melissa Allen	12/09/2009																
Melissa L. Hladik	12/09/2009																
Samuel John Lafountain	12/09/2009																
Luis Alberto Torres	02/25/2010																
Erick W Dittmer	12/09/2009																
RECEIVING PARTY DATA																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Name:</td><td>GE-Hitachi Nuclear Energy Americas LLC</td></tr> <tr><td>Street Address:</td><td>3901 Castle Hayne Road</td></tr> <tr><td>City:</td><td>Wilmington</td></tr> <tr><td>State/Country:</td><td>NORTH CAROLINA</td></tr> <tr><td>Postal Code:</td><td>28401</td></tr> </table>		Name:	GE-Hitachi Nuclear Energy Americas LLC	Street Address:	3901 Castle Hayne Road	City:	Wilmington	State/Country:	NORTH CAROLINA	Postal Code:	28401						
Name:	GE-Hitachi Nuclear Energy Americas LLC																
Street Address:	3901 Castle Hayne Road																
City:	Wilmington																
State/Country:	NORTH CAROLINA																
Postal Code:	28401																
PROPERTY NUMBERS Total: 1																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Property Type</th> <th style="width: 70%;">Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12718260</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12718260												
Property Type	Number																
Application Number:	12718260																
CORRESPONDENCE DATA																	
<p>Fax Number: (703)668-8200</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Email: dcmailroom@hdp.com</p> <p>Correspondent Name: Harness, Dickey, & Pierce</p> <p>Address Line 1: 11730 Plaza America</p> <p>Address Line 2: Suite 600</p> <p>Address Line 4: Reston, VIRGINIA 20190</p>																	
ATTORNEY DOCKET NUMBER:	24IG141515(8564-000194)																

CH \$40.00 12718260

501110751

PATENT
REEL: 024036 FRAME: 0035

NAME OF SUBMITTER:

Gary Yacura

Total Attachments: 15

source=Assignment#page1.tif

source=Assignment#page2.tif

source=Assignment#page3.tif

source=Assignment#page4.tif

source=Assignment#page5.tif

source=Assignment#page6.tif

source=Assignment#page7.tif

source=Assignment#page8.tif

source=Assignment#page9.tif

source=Assignment#page10.tif

source=Assignment#page11.tif

source=Assignment#page12.tif

source=Assignment#page13.tif

source=Assignment#page14.tif

source=Assignment#page15.tif

ASSIGNMENT

In accordance with obligations entered into pursuant to an Employee Innovation and Proprietary Information Agreement or other agreement and/or for other good and valuable consideration of which I/we acknowledge receipt, I/we, **William Earl RUSSELL, II** of Wilmington, NC; **Heather J. HATTON** of Wilmington, NC; **Melissa ALLEN** of Wilmington, NC; **Melissa L. HLADIK** of Leland, NC; **Samuel John LAFOUNTAIN** of Williamsburg, VA; **Luis Alberto TORRES** of East Palo Alto, CA; and **Erick W. DITTMER** of Hampstead, NC, hereby sell and assign to **GE-Hitachi Nuclear Energy Americas LLC**, 3901 Castle Hayne Road, Wilmington, NC 28401 (hereinafter referred to as "Company"), its successors and assigns the entire right, title and interest in and to the invention and improvements invented and originated by me/us and described in the application for United States Patent currently entitled **IRRADIATION TARGET POSITIONING DEVICES AND METHODS OF USING THE SAME.**

X signed as of even date,

☐ signed as of [date], or

☐ filed on [date] having Serial Number [Serial Number]

and any and all applications for patent and patents therefrom in any and all countries, including all divisions, continuations, reexaminations and reissues thereof, and all rights of priority resulting from the filing of said United States application, and authorize and request any official whose duty it is to issue patents, to issue any patent on said inventions and improvements resulting therefrom to said Company, or its successors or assigns and agree that on request and without further consideration, but at the expense of said Company, I/we will communicate to said Company or its representatives or nominees any facts known to me/us respecting said inventions and improvements and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, reexamination and reissue applications, make all rightful oaths and generally do everything possible to aid said Company, its successors, assigns, and nominees to obtain and enforce proper patent protection for said invention and its improvements in all countries.

First Inventor: **William Earl RUSSELL, II**

____ Date: _____

State of North Carolina
County of New Hanover

This ____ day of _____, 20____, before me personally came the above named William Earl Russell, II to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he executed the same of his own free will for the purposes therein set forth.

Seal

(Notary Public)

My commission expires: 10-27-2013

Second Inventor: **Heather J. HATTON**

____ Date: _____

State of North Carolina
County of New Hanover

This ____ day of _____, 20____, before me personally came the above named Heather J. Hatton to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that she executed the same of her own free will for the purposes therein set forth.

Seal

(Notary Public)

My commission expires: 10-27-2013

Third Inventor: **Melissa ALLEN**

_____ Date: _____

State of North Carolina
County of New Hanover

This _____ day of _____, 20____, before me personally came the above named Melissa Allen to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that she executed the same of her own free will for the purposes therein set forth.

Seal

(Notary Public)

Fourth Inventor: **Melissa L. HLADIK**

_____ Date: _____

State of North Carolina
County of New Hanover

This _____ day of _____, 20____, before me personally came the above named Melissa L. Hladik to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that she executed the same of her own free will for the purposes therein set forth.

Seal

(Notary Public)

My commission expires: 10-27-2013

Fifth Inventor: **Samuel John LAFOUNTAIN**

Samuel John Lafountain Date: 12/09/2009

State of Georgia
County of COBB

This 9 day of DECEMBER, 2009, before me personally came the above named Samuel John Lafountain to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he executed the same of his own free will for the purposes therein set forth.

Seal

Donald E. Asa
(Notary Public)

My commission expires: 10/05/2010

Sixth Inventor: **Luis Alberto TORRES**

_____ Date: _____

State of _____
County of _____

This _____ day of _____, 20____, before me personally came the above named Luis Alberto Torres to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he executed the same of his own free will for the purposes therein set forth.

Seal

(Notary Public)

My commission expires: _____

Seventh Inventor: **Erick DITTMER**

_____ Date: _____

State of _____ SS:
County of _____

This _____ day of _____, 20____, before me personally came the above named Erick Dittmer to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Seal

(Notary Public)

ASSIGNMENT

In accordance with obligations entered into pursuant to an Employee Innovation and Proprietary Information Agreement or other agreement and/or for other good and valuable consideration of which I/we acknowledge receipt, I/we, **William Earl RUSSELL, II** of Wilmington, NC; **Heather J. HATTON** of Wilmington, NC; **Melissa ALLEN** of Wilmington, NC; **Melissa L. HLADIK** of Leland, NC; **Samuel John LAFOUNTAIN** of Williamsburg, VA; **Luis Alberto TORRES** of East Palo Alto, CA; and **Erick W. DITTMER** of Hampstead, NC, hereby sell and assign to **GE-Hitachi Nuclear Energy Americas LLC**, 3901 Castle Hayne Road, Wilmington, NC 28401 (hereinafter referred to as "Company"), its successors and assigns the entire right, title and interest in and to the invention and improvements invented and originated by me/us and described in the application for United States Patent currently entitled **IRRADIATION TARGET POSITIONING DEVICES AND METHODS OF USING THE SAME**.

X signed as of even date,

signed as of [date], or

filed on [date] having Serial Number [Serial Number]

and any and all applications for patent and patents therefrom in any and all countries, including all divisions, continuations, reexaminations and reissues thereof, and all rights of priority resulting from the filing of said United States application, and authorize and request any official whose duty it is to issue patents, to issue any patent on said inventions and improvements resulting therefrom to said Company, or its successors or assigns and agree that on request and without further consideration, but at the expense of said Company, I/we will communicate to said Company or its representatives or nominees any facts known to me/us respecting said inventions and improvements and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, reexamination and reissue applications, make all rightful oaths and generally do everything possible to aid said Company, its successors, assigns, and nominees to obtain and enforce proper patent protection for said invention and its improvements in all countries.

First Inventor: **William Earl RUSSELL, II**

_____ Date: _____

State of North Carolina
County of New Hanover

This _____ day of _____, 20____, before me personally came the above named William Earl Russell, II to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he executed the same of his own free will for the purposes therein set forth.

Seal

(Notary Public)

My commission expires: 10-27-2013

Second Inventor: **Heather J. HATTON**

_____ Date: _____

State of North Carolina
County of New Hanover

This _____ day of _____, 20____, before me personally came the above named Heather J. Hatton to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that she executed the same of her own free will for the purposes therein set forth.

Seal

(Notary Public)

My commission expires: 10-27-2013

Fifth Inventor: **Samuel John LAFOUNTAIN**

_____ Date: _____

State of _____
County of _____

This _____ day of _____, 20____, before me personally came the above named Samuel John Lafountain to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he executed the same of his own free will for the purposes therein set forth.

Seal

(Notary Public)

My commission expires: _____

Sixth Inventor: **Luis Alberto TORRES**

Luis A. Torres Date: 2/25/2010

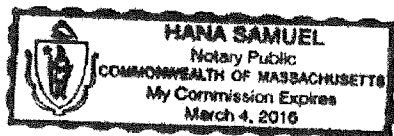
State of MASSACHUSETTS
County of MIDDLESEX

This 25 day of February, 2010, before me personally came the above named Luis Alberto Torres to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he executed the same of his own free will for the purposes therein set forth.

Seal

Hana Samuel
(Notary Public)

My commission expires: March 4, 2016



Third Inventor: **Melissa ALLEN**

_____ Date: _____

State of North Carolina
County of New Hanover

This _____ day of _____, 20____, before me personally came the above named Melissa Allen to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that she executed the same of her own free will for the purposes therein set forth.

Seal

(Notary Public)

Fourth Inventor: **Melissa L. HLADIK**

_____ Date: _____

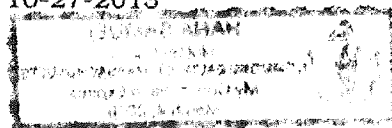
State of North Carolina
County of New Hanover

This _____ day of _____, 20____, before me personally came the above named Melissa L. Hladik to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that she executed the same of her own free will for the purposes therein set forth.

Seal

(Notary Public)

My commission expires: 10-27-2013



HDP Ref.: 8564-000194/US
GE Ref.: 24IG241515

Seventh Inventor: **Erick DITTMER**

_____ Date: _____

State of _____ SS:
County of _____

This _____ day of _____, 20____, before me personally came the above named Erick Dittmer to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Seal

(Notary Public)

ASSIGNMENT

In accordance with obligations entered into pursuant to an Employee Innovation and Proprietary Information Agreement or other agreement and/or for other good and valuable consideration of which I/we acknowledge receipt, I/we, **William Earl RUSSELL, II** of Wilmington, NC; **Heather J. HATTON** of Wilmington, NC; **Melissa ALLEN** of Wilmington, NC; **Melissa L. HLADIK** of Leland, NC; **Samuel John LAFOUNTAIN** of Williamsburg, VA; **Luis Alberto TORRES** of East Palo Alto, CA; and **Erick W. DITTMER** of Hampstead, NC, hereby sell and assign to **GE-Hitachi Nuclear Energy Americas LLC**, 3901 Castle Hayne Road, Wilmington, NC 28401 (hereinafter referred to as "Company"), its successors and assigns the entire right, title and interest in and to the invention and improvements invented and originated by me/us and described in the application for United States Patent currently entitled **IRRADIATION TARGET POSITIONING DEVICES AND METHODS OF USING THE SAME.**

☒ X signed as of even date,

☐ signed as of [date], or

☐ filed on [date] having Serial Number [Serial Number]

and any and all applications for patent and patents therefrom in any and all countries, including all divisions, continuations, reexaminations and reissues thereof, and all rights of priority resulting from the filing of said United States application, and authorize and request any official whose duty it is to issue patents, to issue any patent on said inventions and improvements resulting therefrom to said Company, or its successors or assigns and agree that on request and without further consideration, but at the expense of said Company, I/we will communicate to said Company or its representatives or nominees any facts known to me/us respecting said inventions and improvements and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, reexamination and reissue applications, make all rightful oaths and generally do everything possible to aid said Company, its successors, assigns, and nominees to obtain and enforce proper patent protection for said invention and its improvements in all countries.

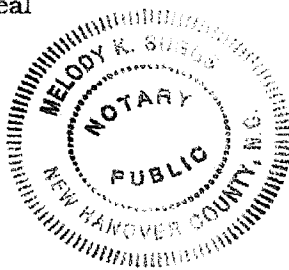
First Inventor: **William Earl RUSSELL, II**

William Earl Russell, II Date: 12/21/2009

State of North Carolina
County of New Hanover

This 21st day of December, 2009, before me personally came the above named William Earl Russell, II to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he executed the same of his own free will for the purposes therein set forth.

Seal



Melody K. Suggs
(Notary Public)

My commission expires: 10-27-2013

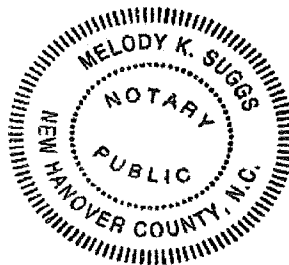
Second Inventor: **Heather J. HATTON**

Heather J. Hatton Date: 12-9-09

State of North Carolina
County of New Hanover

This 9th day of December, 2009, before me personally came the above named Heather J. Hatton to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that she executed the same of her own free will for the purposes therein set forth.

Seal



Melody K. Suggs
(Notary Public)

My commission expires: 10-27-2013

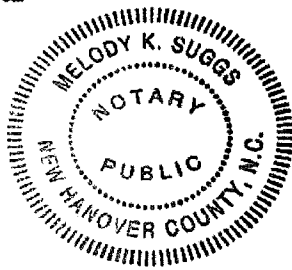
Third Inventor: **Melissa ALLEN**

Melissa Allen Date: 12/9/09

State of North Carolina
County of New Hanover

This 9th day of December, 2009, before me personally came the above named Melissa Allen to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that she executed the same of her own free will for the purposes therein set forth.

Seal



Melody K. Suggs
(Notary Public)

My commission expires: 10-27-2013

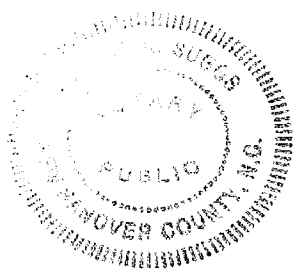
Fourth Inventor: **Melissa L. HLADIK**

Melissa L. Hladik Date: 12/9/09

State of North Carolina
County of New Hanover

This 9th day of December, 2009, before me personally came the above named Melissa L. Hladik to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that she executed the same of her own free will for the purposes therein set forth.

Seal



Melody K. Suggs
(Notary Public)

My commission expires: 10-27-2013

Fifth Inventor: **Samuel John LAFOUNTAIN**

_____ Date: _____

State of _____
County of _____

This _____ day of _____, 20____, before me personally came the above named Samuel John Lafountain to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he executed the same of his own free will for the purposes therein set forth.

Seal

(Notary Public)

My commission expires: _____

Sixth Inventor: **Luis Alberto TORRES**

_____ Date: _____

State of _____
County of _____

This _____ day of _____, 20____, before me personally came the above named Luis Alberto Torres to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he executed the same of his own free will for the purposes therein set forth.

Seal

(Notary Public)

My commission expires: _____

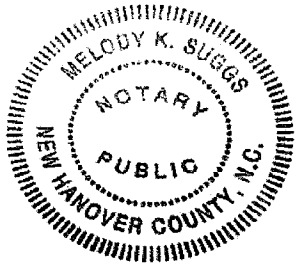
Seventh Inventor: **Erick W. DITTMER**

Erick W. Dittmer Date: 12/9/2009

State of North Carolina
County of New Hanover

This 9th day of December, 2009, before me personally came the above named Erick W. Dittmer to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he executed the same of his own free will for the purposes therein set forth.

Seal



Melody K. Suggs
(Notary Public)

My commission expires: 10-27-2013