

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT2884139

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	RELEASE OF SECURITY INTEREST
CONVEYING PARTY DATA	
Name	Execution Date
JPMORGAN CHASE BANK, N.A., AS ADMINISTRATIVE AGENT	05/29/2014
RECEIVING PARTY DATA	
Name:	CHEM-NUCLEAR SYSTEMS, L.L.C.
Street Address:	740 OSBORN ROAD
City:	BARNWELL
State/Country:	SOUTH CAROLINA
Postal Code:	29812
PROPERTY NUMBERS Total: 5	
Property Type	Number
Patent Number:	5225114
Patent Number:	5331674
Patent Number:	5585531
Patent Number:	5720878
Patent Number:	6387274
CORRESPONDENCE DATA	
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NAME OF SUBMITTER:	ANGELA M. AMARU
SIGNATURE:	/s/ Angela M. Amaru
DATE SIGNED:	06/04/2014
Total Attachments: 9	
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TERMINATION AND RELEASE OF PATENT SECURITY INTEREST, dated as of May 29, 2014 (this “Release”), by JPMORGAN CHASE BANK, N.A., as Administrative Agent under the Existing Credit Agreement (as defined below), in favor of the Grantors. Capitalized terms used herein and not otherwise defined shall have the meanings assigned to such terms in the Existing Credit Agreement, the Existing Guarantee and Collateral Agreement or the Existing Patent and Trademark Security Agreement, as applicable, referred to below.

Reference is made to (i) the Credit Agreement dated as of August 13, 2010 (as amended as of August 23, 2010, further amended as of February 15, 2013, further amended as of October 11, 2013 and further amended, restated, supplemented or otherwise modified prior to the date hereof, the “Existing Credit Agreement”), among EnergySolutions, Inc., (the “Parent”), EnergySolutions, LLC (the “Borrower”), the Lenders party thereto (the “Lenders”) and JPMorgan Chase Bank, N.A., as Administrative Agent (the “Administrative Agent”), (ii) the Guarantee and Collateral Agreement dated as of August 13, 2010 (as amended as of August 23, 2010 and amended, restated, supplemented or otherwise modified prior to the date hereof, the “Existing Guarantee and Collateral Agreement”), among the Parent, the Borrower, certain Subsidiaries from time to time party thereto and the Administrative Agent, and (iii) the Patent and Trademark Security Agreement dated as of August 13, 2010 (the “Existing Patent and Trademark Security Agreement”) among the Parent, the Borrower, Manufacturing Sciences Corporation, Duratek, Inc., Chem-Nuclear Systems, L.L.C., EnergySolutions Diversified Services, Inc. and EnergySolutions Services, Inc. (as successor-in-interest to Duratek Services, Inc.) (collectively, the “Grantors”, and each, a “Grantor”) and the Administrative Agent ((ii) and (iii), together, the “Existing Security Agreements”).

WHEREAS, pursuant to the Existing Security Agreements, the Grantors granted to the Administrative Agent, for the benefit of the Secured Parties, a security interest in all right, title or interest of the Grantors in certain intellectual property, including the patents of the Grantors set forth on Schedule A hereto (the “Patents”), which security interests were recorded with the United States Patent and Trademark Office on September 20, 2010 on Reel 025008, Frame 0983.

WHEREAS, in connection with the payment in full of all Obligations of the Borrower and the Loan Parties, the termination in whole of the Commitments and the release of security interests under the Security Documents, the Administrative Agent, pursuant to Section 7.13 of the Existing Guarantee and Collateral Agreement and on behalf of the Secured Parties, hereby releases all right, title and interest granted to it, for the benefit of the Secured Parties, under the Existing Security Agreements in and to the Patents.

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Administrative Agent hereby (i)

terminates the Existing Patent and Trademark Security Agreement, (ii) terminates, cancels and releases any and all security interests it has in and against the Patents and (iii) reassigns all right, title and interest it may have in, to or under the Patents, together with the goodwill associated therewith, to the applicable Grantor.

The Administrative Agent shall take all further actions, and provide to any Grantor, its successors, assigns or other legal representatives, all such cooperation and assistance (including, without limitation, the execution and delivery of any and all documents or other instruments), reasonably requested by any Grantor to more fully and effectively effectuate the purposes of this Release at the expense of such Grantor.

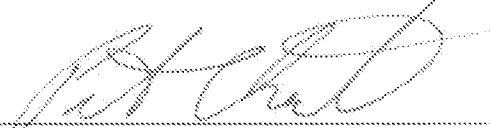
The execution and delivery of this Release and the performance of any actions by the Administrative Agent in accordance with this Release are made without representation or warranty by, or recourse to, the Administrative Agent or any other Secured Party.

**THIS RELEASE SHALL BE GOVERNED BY, AND SHALL BE
CONSTRUED AND ENFORCED IN ACCORDANCE WITH, THE LAWS OF THE
STATE OF NEW YORK.**

IN WITNESS WHEREOF, the Administrative Agent has caused this Release to be duly executed as of the day and year first above written.

JPMORGAN CHASE BANK, N.A., as
Administrative Agent,

By



Name: Peter Christensen

Title: Vice President

[Signature Page to Patent Release]

[[NYCORP:3471029v1.014SE: 05/19/2014--10:00 AM]]

PATENT
REEL: 033085 FRAME: 0054

SCHEDULE I

U.S. Patent Registrations

OWNER	FILING/APPL DATE & REG. DATE	REGISTRATION NUMBER	DESCRIPTION & EXPIRATION DATE
Chem-Nuclear Systems, L.L.C.	9/18/1991 & 7/6/1993	5225114	Multipurpose container for low level radioactive waste; 9/18/2011
Chem-Nuclear Systems, L.L.C.	12/31/1992 & 7/19/1994	5331674 ¹	Nuclear reactor coolant system inventory control system and method; 12/1/2012
Chem-Nuclear Systems, L.L.C.	10/07/1994 & 12/17/1996	5585531	Method for processing liquid radioactive waste (Thermex); 10/1/2014
Chem-Nuclear Systems, L.L.C.	3/07/1996 & & 2/24/1998	5720878	Panel filter system; 3/1/2016
Chem-Nuclear Systems, L.L.C.	3/28/2000 & 5/14/2002	6387274 ²	A system and method for the removal of radioactive particulate from liquid waste (ALPS); 3/1/2020
Duratek Services, Inc.	5/25/1990 & 7/07/1992	5128068	Method and apparatus for cleaning contaminated particulate; 5/25/2010
Duratek Services, Inc.	7/25/1991 & 10/25/1992	5156722	Decontamination of radioactive metals; 7/25/2011
Duratek Services, Inc.	10/02/1991 & 2/02/1993	5183541	Decontamination of radioactive metals; 10/2/2011
Duratek Services, Inc.	12/20/1991 & 6/08/1993	5217585	Transition metal decontamination process; 12/20/2011
Duratek Services, Inc.	12/17/1990 & 9/07/1993	5242503	Method of restoring contaminated solids using ion exchange powder contact; 12/17/2010
Duratek Services, Inc.	8/30/1991 & 9/14/1993	5244575	Method for recovering organic solvents and contaminants from soap liquors; 8/30/2011

¹ Company is pursuing a nunc pro tunc assignment with respect to this patent.

² A judgment under appeal has held this patent to be unenforceable.

Duratek Services, Inc.	12/16/1992 & 11/16/1993	5262019	Decontamination of radioactive metals; 12/16/2012
Duratek Services, Inc.	1/31/1991 & 12/07/1993	5268128	Method and apparatus for cleaning contaminated particulate material; 1/1/2011
Duratek Services, Inc.	5/01/1992 & 2/22/1994	5288435	Treatment of radioactive wastes; 5/1/2012
Duratek Services, Inc.	11/18/1992 & 3/08/1994	5292695	Process for reactivating particulate adsorbents; 11/1/2012
Duratek Services, Inc.	7/16/1992 & 3/15/1994	5294310	Surfactant recovery process; 7/1/2012
Duratek Services, Inc.	6/27/1991 & 4/05/1994	5300258	Method for decontaminating soil containing resins; 6/1/2011
Duratek Services, Inc.	4/20/1992 & 5/31/1994	5316223	Method and apparatus for cleaning contaminated particulate material; 4/1/2012
Duratek Services, Inc.	8/16/1993 & 6/21/1994	5322116	Very high temperature heat exchanger; 8/1/2013
Duratek Services, Inc.	3/17/1993 & 7/19/1994	5330658	Solution decontamination method using precipitation and flocculation techniques; 3/1/2013
Duratek Services, Inc.	5/26/1993 & 11/08/1994	5361910	Modified mineral jig; 5/1/2013
Duratek Services, Inc.	4/02/1993 & 12/06/1994	5370827	Solution decontamination method using precipitation techniques; 4/1/2013
Duratek Services, Inc.	4/27/1993 & 12/13/1994	5372650	Method for treatment of waste sand; 4/1/2013
Duratek Services, Inc.	1/06/1994 & 3/28/1995	5402455	Waste containment composite; 1/1/2014
Duratek Services, Inc.	3/12/1993 & 5/16/1995	5416251	Method and apparatus for the solidification of radioactive wastes and products produced thereby; 3/1/2013
Duratek Services, Inc.	2/18/1994 & 5/16/1995	5416257	Open frozen barrier flow control and remediation of hazardous soil; 2/1/2014
Duratek Services, Inc.	4/08/1994 & 6/27/1995	5427738	Method and system for detoxifying solid waste; 4/1/2014

Duratek Services, Inc.	9/12/1991 & 7/11/1995	5431295	Storage module for nuclear waste with improved liner; 7/1/2012
Duratek Services, Inc.	10/18/1993 & 7/25/1995	5436384	Process for the remediation of contaminated particulate material; 12/1/2014
Duratek Services, Inc.	6/17/1994 & 8/08/1995	5439562	Electrochemical decontamination of radioactive metals by alkaline processing; 6/1/2014
Duratek Services, Inc.	4/01/1994 & 11/28/1995	5470544	System for steam reforming of liquid or slurry feed material; 4/1/2014
Duratek Services, Inc.	12/28/1994 & 12/10/1996	5582800	Method and system for removal of harmful heteroatoms in gaseous waste streams; 12/1/2014
Duratek Services, Inc.	12/29/1992 & 6/17/1997	5640701	Method for remediating soil containing radioactive contaminants; 6/1/2014
Duratek Services, Inc.	7/24/1995 & 6/17/1997	5640704	Process for solidification and immobilization of harmful waste species; 7/1/2015
Scientific Ecology Group, Inc. (now known as Duratek Services, Inc.)	5/05/1995 & 9/30/1997	5672278	Method and system for suppression of foam in waste streams; 5/1/2015
Duratek Services, Inc.	10/15/1996 & 3/03/1998	5724669	Metal decontamination process and systems for accomplishing same; 7/1/2015
Scientific Ecology Group, Inc. (now known as Duratek Services, Inc.)	5/26/1995 & 8/04/1998	5789648	An article made out of radioactive or hazardous waste and a method of making the same; 8/1/2015
Scientific Ecology Group, Inc. (now known as Duratek Services, Inc.)	4/15/1997 & 11/03/1998	5831143	Method for detecting hydrogen in waste compounds; 4/1/2017
Scientific Ecology Group, Inc. (now known as Duratek Services, Inc.)	4/21/1997 & 11/17/1998	5837122	Electrowinning electrode, cell and process; 4/1/2017

Scientific Ecology Group, Inc. (now known as Duratek Services, Inc.)	12/23/1996 & 3/02/1999	5876590	Electrochemical leaching of soil; 12/1/2016
Scientific Ecology Group, Inc. (now known as Duratek Services, Inc.)	2/03/1997 & 3/09/1999	5879566	Integrated steam reforming operation for processing organic contaminated sludges and system; 2/1/2017
Scientific Ecology Group, Inc. (now known as Duratek Services, Inc.)	3/14/1997 & 9/21/1999	5954936	Robust technetium removal method system; 3/1/2017
Duratek, Inc.	8/18/2005 & 3/20/2007	D538611	Lid lifter; 3/20/2021
Duratek, Inc. (jointly owned with Hylsa, S.A. de C.V.)	11/24/1993 & 6/20/1995	5425792	Method for gasifying organic materials; 11/1/2013
Duratek, Inc. (jointly owned with Hylsa, S.A. de C.V.)	6/07/1995 & 8/12/1997	5656044	Method and apparatus for gasification of organic materials; 6/1/2015
Duratek, Inc. (jointly owned with Hylsa, S.A. de C.V.)	6/07/1995 & 12/22/1998	5851246	Apparatus for gasifying organic materials; 6/1/2015
Duratek, Inc.	5/31/2001 & 6/17/2003	6578514	Modular device of tubular plasma source; 5/31/2021
Duratek, Inc.	9/22/1997 & 2/09/1999	5868814	Apparatus for recirculating molten glass; 9/1/2017
NUKEM Corporation (now known as EnergySolutions Diversified Services, Inc.)	4/26/2002 & 3/23/2004	6,709,599	Waste Water Treatment System with Slip Stream; 6/1/2026
NUKEM Corporation (now known as EnergySolutions Diversified Services, Inc.)	5/24/2002 & 6/27/2006	7,067,057	Fluid conveyed Material Collection System Waste Water Treatment System; 6/1/2026

NUKEM Corporation (now known as EnergySolutions Diversified Services, Inc.)	12/14/2005 & 7/21/2009	7,563,939	SAFE System Method & Systems for Treating Radioactive Waste Water (Water Purification System Using Electrocoagulation and Electromagnetic Filtration); 12/1/2025
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U.S. Patent Applications

OWNER	FILING/APPLICATION DATE	APPLICATION NUMBER	TITLE/DESCRIPTION
EnergySolutions, LLC Inventors: Denton, et al.	2/28/2006	11/364,643	Low-temperature solidification of radioactive and hazardous wastes
EnergySolutions, LLC	3/10/2010	12/677,490	Mitigation of Secondary Phase Formation During Waste Vitrification
EnergySolutions, LLC	7/16/2007	11/879,178 (Publ. No. US-2009-002-181-A1)	Remote Fill Head With Automatic Drip Tray
EnergySolutions, LLC	11/07/2008	12/267,290 (Publ. No. US-2009-0149689)	System for and Method of Filling a Container with Hazardous Waste
NUKEM Corporation (now known as EnergySolutions Diversified Services, Inc.)	4/04/2007	11/696,444	Waste Stabilization and Packaging System for Uranium Laden Wastes
EnergySolutions Diversified Services, Inc.	8/06/2007	11/834,098 (Publ. No. US-2009-0038961-A1)	Process and System for Treating Radioactive Waste Water to Prevent Overloading Demineralizer System (SMART System)
EnergySolutions Diversified Services, Inc.	7/02/2008	12/166,897 (Publ. No. US-2009-0008341-A1)	Fluid Removing Filter Apparatus and Method of Removing Fluid From a Mixture

EnergySolutions Diversified Services, Inc.	2/13/2009	12/371,201	Method for Treating Radioactive Waste Water (SAFE System)
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