

Diversified Technologies Services, Inc. Project & Experience List

2680 Westcott Blvd. Knoxville, TN 37931 Phn 865/539-9000 www.dts9000.com

Here's a [Summary](#) of the clients DTS has served, and the products and services we've provided. The following pages show further detail about our projects and contacts at each facility.

	Product / Service	Demin, Filtration	UF, RO, BARS, ZERO	Ozone, TOC- Destruct	Under-water	Dewater, Dry, Centrifuge	Polymer Solidify, Stabilize	Other Projects	Media, Oil Booms
	Client / Facility								
	Pgs	1-4	5-8	8	9-11	12	13-14	15-16	18
U.S. Nuclear Power Plants	Arkansas Nuclear One	•	•					•	•
	Beaver Valley	•	•			•	•		•
	Big Rock Point	•							
	Callaway								•
	Calvert Cliffs		•						
	Catawba							•	
	Comanche Peak	•					•	•	•
	Connecticut Yankee			•		•	•		•
	Cooper					•			
	Crystal River	•	•					•	•
	Davis-Besse	•				•		•	•
	D.C. Cook					•			
	Diablo Canyon	•	•			•	•	•	•
	Dresden							•	•
	Duane Arnold	•							
	Farley			•					•
	Fort Calhoun	•	•		•	•			•
	Grand Gulf			•					•
	Humboldt Bay	•				•			•
	Indian Point	•	•			•			•
	LaSalle								•
	Maine Yankee	•				•	•		•
	McGuire			•					•
	Millstone			•					•
	Nine Mile					•			
	North Anna	•	•			•			•
	Oconee			•					
	Oyster Creek					•			
	Pilgrim							•	
	Perry					•	•	•	•
	Prairie Island								•
	Quad Cities								•
	Rancho Seco	•	•				•		•
	Saint Lucie			•					
	Salem	•	•						•
	Seabrook	•	•						•
	Shoreham	•				•			•
	South Texas Project			•		•			
	Surry								•
	Susquehanna								•
Three Mile Island	•				•				
Trojan	•							•	
Turkey Point	•	•					•	•	
V.C. Summer	•	•			•		•	•	
Vogtle			•	•		•		•	
Waterford								•	
Watts Bar					•				
Wolf Creek	•	•		•		•		•	
Yankee Rowe					•				

	Product / Service	Demin, Filtration	UF, RO, BARS, ZERO	Ozone, TOC Destruct	Under- water	Dewater, Dry, Centrifuge	Polymer Solidify, Stabilize	Other Projects	Media, Oil Booms
	Client / Facility								
	Pgs.	1-4	5-8	8	9-11	12	13-14	15-16	18
U.S Government & Private Industry	Advanced Medical Systems	•							•
	Argonne National Lab	•							
	Battelle Memorial Institute	•				•			•
	Bechtel Bettis NRF						•		•
	Brookhaven National Lab	•			•			•	•
	BWXT Services						•		
	DEMCO (Port of Tacoma)							•	
	Eastern Technologies								•
	Foster Wheeler							•	
	Hanford Site				•				
	Idaho National Eng'g Lab						•		
	Illinois Central College	•							
	Knolls Atomic Power Lab						•		
	Manufacturing Sciences						•		
	Mound Technical Center.	•							•
	Nat'l Institutes of Health	•							•
	(n,p) Energy								•
	Paducah DOE Site							•	
	Princeton Plasma Physics Lab								•
	Puget Sound Naval Shipyard							•	
	Reily Foods								•
	Rocky Flats DOE Site			•			•		
	S.A .Robotics							•	
	Savannah River DOE Site	•						•	•
	SPAFAS								•
	Spallation Neutron Source	•							
Unitech (INS)			•			•			
University of Illinois	•							•	
Westinghouse NRF							•		
Westinghouse Waltz Mill Site						•			
West Valley Site	•				•			•	

International	Australia (ANSTO)					•			
	Brazil (Eletronuclear)							•	
	Canada (Bruce Power)	•		•					
	France (SOCODEI, EDF)						•		
	Japan (Tokai)				•				
	Korea (KEPCO, KHNP)	•	•	•			•		•
	Mexico (Laguna Verde)				•				
	Serbia (IAEA, Vinca Inst.)						•		
	Slovenia (NEK)				•	•			
	Slovakia (SE, ENEL)								•
	Taiwan (Taiwan Power)	•							•
	Great Britain (BNFL)							•	
	Wales (Magnox, NSG)							•	

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Project & Experience List

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Facility	Project Description	Type, Term	Value	Contact
DEMINERALIZATION - FILTRATION				
Advanced Medical Systems	Rapid response cleanup of cobalt-contaminated groundwater intrusion	Service 3/95–11/95		Alan Duff, Project Mgr. 216-466-4671
Argonne National Lab	Portable demin system for use in ALARON project	Lease 1/95–5/95		Greg Garlock Project Mgr., ALARON 708-972-0890
Arkansas Nuclear One	Personnel, equipment, and media to process LRW stream	Service 5/93–6/11		Mike Frala Supv. Nuclear Chemistry 479-964-5822 mfrala@entergy.com
	Two chemical addition stations to allow pH adjustment of waste streams	Lease 6/02–12/04		Greg Stephenson Chemistry Specialist 479-858-3519 gstephe@entergy.com
	15-cf Mobile Cleanup System for Cask Loading Pit	Lease/Purch. 2/95–5/96		" "
	Two 2-cf disposable vessels w. mixed bed resin for cleanup of service water before intro to RW	Purchase 4/02		" "
	Demin system to support dry fuel operations	Purchase 8/02		Darrell Williams Senior Project Mgr. 479-858-4668
Battelle Memorial Institute	Polishing and containment system for use in release of SFP water	Lease 9/95–12/97		Cidney Voth, Project Mgr. 614-424-4722
Beaver Valley	Pre-Conditioning Filter (deep bed carbon filter) to remove organics and particulate from LRW process system	Lease/Purch. 9/03–12/06		Al Castagnacci, Supv. Radwaste & Effluents 724-682-5033 castagnacci@firstenergycorp.com
Big Rock Point	30-cf demin vessel, shielded duplex backflushable filter to supplement plant's LRW processing capabilities during decommissioning	Purchase 11/98		Stan Kupka Project Engineer 616-547-8321
Brookhaven National Lab	Portable skid-mounted IX unit, personnel, media for batch-processing of LRW	Service 8/94–5/95		Pete Kwaschyn Supervising Engineer 516-282-4235
Bruce Power (Ontario, Canada) Dalpro Industries	Design, fabricate, deliver skid-mounted 140 cf ion exchange vessel pre-loaded with mixed bed resin for Condensate/Boiler Feedwater Flush-Cleanup Filtration and IX System	Purchase 6/10		Jay Harris Technical Consultant Dalpro Industries 905-543-9224 jharris@dalpro.ca
Comanche Peak	Personnel, equipment, and media to process LRW stream; liners and HICs to package waste	Service 7/92–7/00		Lisa Hughes-Edwards Operations RW Supervisor 254-897-0295
	Portable demin skid for aux. sump cleanup	Lease 10/93–9/94		" "
	Bag filter w. shield	Purchase 8/94		" "

Facility	Project Description	Type, Term	Value	Contact
DEMINERALIZATION - FILTRATION				
Comanche Peak Cont'd	Demin/bag filter system to treat secondary plant effluents and remove suspended solids, oil and grease before release	Lease 12/94–8/07	"	"
	100 gpm bag filter w. shield to remove high levels of particulate from waste stream	Purchase 12/92		Jeff Edwards Operations RW Supervisor 254-897-5635
Crystal River	Safety-related corrosion-resistant IX vessel and resin strainer	Purchase 9/91		Phyllis Dixon, Project Eng'r 904-796-6486 x4512
Davis-Besse	Replacement components for RW demin system - 5 corrosion-resistant process vessels, influent filtration and chemical addition station	Purchase 10/97		Bruce Geddes, Operations 419-321-7388
Diablo Canyon	Equipment, personnel, materials to remove chromates from ICW, CCW, SCW and Diesel Generator Jacket Cooling Systems, dewater and package expended resins, and re-apply potassium molybdate	Project 4/91–12/01		Wendell Davenport Project Coordinator 805-545-6838
	LRW filtration/demin services	Demand 2/93–12/93	"	"
	Demin/filtration/ultrafiltration services for low and high-conductivity LRW water	Demand 5/87–12/99		Clint Miller, Consulting RW Engineer 805-545-4582 ccm1@pge.com
Duane Arnold	Emergency response (<24 hours) for treatment of primary to secondary leak water. Dual stand-alone 55-gpm demin system w. personnel, media.	Project 2/03		Greg Whittier Operations 319-851-7496
Fort Calhoun	Personnel, equipment, and media to process LRW stream	Service 9/91–12/12		Marlyn Anderson Radwaste Operations 402- 533-7195 mpanderson@oppd.com
	15-cf sluiceable process vessel w. control header	Lease 9/01-TBD	"	"
Humboldt Bay	Equipment, personnel, and media to process high-conductivity LRW: bag filter, and demin vessel(s), organic and cesium-selective IX media	Service 8/97–2/97		Louie Claytor Project Engineer 707-444-0715
Illinois Central College	15-cf FRP vessel with resin to remove chromates from circulating system	Project 5/03– 6/03		Jeff Diemer 309-694-5134
Indian Point 2	Lease of RWFS filter w. shield for filtration of pool draindown for release	Project 8/08–9/08		Chris English Site Contract Manager 914-736-8621 cenglis2@entergy.com
Korea Electric Power	Design, fabricate, install, provide media for turnkey LRW processing system for Ulchin 5 & 6. Includes 12 60-cf corrosion-resistant vessels.	Purchase 9/01		B.C. Park Dongduk Development 011-82-2-547-6301

Facility	Project Description	Type, Term	Value	Contact
DEMINERALIZATION - FILTRATION				
	Remotely operated system interfaces with plant controls.			
Maine Yankee	Corrosion-resistant 60-cf Pre-Conditioning Filter to replace vendor-supplied equipment	Purchase	4/92	Steve Pratte Systems Ops Specialist 207-882-5760
	Portable demin system in 40' trailer for use in desludging, dechromating	Purchase	7/93	Paul Plante, Sr. Engineer 207-882-5806
	Dual, series mechanical filter system w. shielding to filter steam generator decon waters. One filter and shield purchased by Maine Yankee.	Lease/Purch.	3/97-6/97	Paul Reynolds, Project Eng'r ABB - Combustion Eng'g 423-752-2384
	Make-up water demin: 24" sluiceable vessel, and bag filter.	Lease	5/02-1/04	Don Comoletti Project Engineer 207-882-5128
Mound Technical Center	Two 2.5-cf fiberglass-reinforced poly vessels w. process media for cleanup of specialized waste	Purchase	10/98	Lin Acuff, SELENTEC 770-640-7059
National Institutes of Health	2-vessel Mobile Treatment wastewater polishing system and media to reduce organic solvents	Purchase	7/95	Bill Fannon Project Manager 410-252-9360
	Provide and load replacement media for wastewater treatment system	Project	1/05	Charmagne Dobbins Acquisition Branch 301-402-0716
North Anna	30- and 50-cf corrosion-resistant LRW process vessels to replace vendor-supplied equipment	Purchase	7/92	Pete Hensley Operations Coordinator 703-894-2774
Rancho Seco	2-cf Fiberglass-reinforced poly vessels and carbon media for processing small volumes of water	Purchase	2/03, 3/03 8/06, 9/06	John Newey 916-732-4809 jnewey@hotmail.com
Salem	Equipment, personnel, and selective IX media to process LRW stream	Service	4/91-10/01	Ron Werline, RW Eng'r 856-339-2685 rwerline@pseg.com
	Portable system, personnel, media for chemical adjustment of PWST	Lease	11/91-3/92	" "
	Skid-mounted 30-cf vessel w. instrumentation for chemical adjustment of CC, PWST systems	Purchase	3/93	Gerald Dziuba, Chemistry 856-339-2668
Savannah River	Roughing filter and demin - six 30-cf vessels for groundwater cleanup	Lease/Purch.	5/98-9/00	Joseph Wagner, Purchasing 803-952-6087
Seabrook	Equipment, personnel, supplies to process 1.5 M gall/yr of LRW. Systems include demin/filtration, Radwaste Reverse Osmosis (RWRO) and Chem Drain	Lease	4/06-4/11	Billy Cox Contract Coordinator 603-773-7319 william_cox@nexteraenergy.com
	24" vessel w. shielding and media for polishing LRW effluent	Lease	4/05-8/05	" "
Shoreham	Temporary SFP Cleanup system w. 50-cf process vessel and media	Purchase	3/93	Tom Jernigan Project Engineer 516-929-8300 x3222
	Mobile LRW filter/demin w. 30-cf pro-	Purchase		" "

Facility	Project Description	Type, Term	Value	Contact
DEMINERALIZATION - FILTRATION				
	cess vessel, duplex mechanical pre-filters, and media		4/93	
Spallation Neutron Source - US DOE				
UT-Battelle	Manpower and equipment to perform vacuum transfer of ion exchange media to 11 IX columns	Project	8/05	Lorelei Jacobs Technical Project Officer 865-574-6530
Haselwood Svcs	Diagnosis and troubleshooting on potentially failed IX Vessel	Project	12/05	Rick Berrong, Project Mgr 865-574-9455
Taiwan Power	Components for demin vessels	Purchase	6/96	Grace Hsieh Rep, PAN TRAN Corp. 011-886-2-2541-3275
Three Mile Island	Filtration, demin, dewatering services	Demand	9/91–12/92	Lee Beattys Materials Management 201-316-7331
Trojan	Mobile Cleanup System for Cask Loading Pit. Includes 15-cf vessel preloaded w. IX media; vessel dolly, plate shielding	Purchase	10/97	Mike Janouski Decommissioning 503-556-7251
Turkey Point	LRW processing services, including Candle Filter System (CFS), demineralization, High-Velocity Vacuum (HVV) dewatering, organic and selective media, and manpower	Lease	1/05–TBD	Paul Skinner Primary Chemistry Supv, 305-246-6134 paul.skinner@fpl.com
University of Illinois Dept. of Nuclear Engineering	Fiberglass-reinforced poly vessels loaded with process media for cleanup of specialized waste	Purchase	10/98	Mark Dillavou 217-333-4266
V.C. Summer	Corrosion-resistant LRW process vessels to replace vendor-supplied equipment	Purchase	2/92	Gary Guy RW Processing Coordinator 803-345-4323
West Valley	Two skid-mounted 2-vessel IX units and media for groundwater cleanup	Lease/Purch.	5/94–1/95	Phil Winger. Project Eng'r. 716-942-4456
	Two skid-mounted water treatment systems to remove radionuclides from waste water from plant process areas and groundwater	Purchase	9/97–1/98	Joe Kwiatowski Procurement 716-942-4966
	50-cf removable-core pressure vessel/IX column	Purchase	4/96	Mike Zuber Subcontract Administrator 716-942-4358
	Two 30-cf removeable-core pressure vessel/IX columns for LWTS mercury abatement	Purchase	11/99	Gene Karaffa Sr. Subcontract Specialist 716-942-4426
West Valley (with Butler Construction of WNY, Inc.)	Process design, fabrication, testing, support services, container leasing for shipments for WVES Decon of 8D-4 Liquids Project	Project	6/09–12/10	Jason Rice, Project Mgr. 716-592-3400 jrice@bulterstc.com
Wolf Creek	Provide portable demin system w. removable-core, corrosion resistant vessels for processing LRW stream; train plant personnel to operate	Lease	9/92–8/11	John Freeman Supervisor, RW Operations 620-364-8831 x4555 jofreem@wcnoc.com

Facility	Project Description	Type, Term	Value	Contact
DEMINERALIZATION - FILTRATION				
	Emergency mobilization of 50-cf demin vessel (w. shielding) to filter Reactor Cavity Pool Water	Lease 4/02		Larry Hauth Treatment Systems Eng'r. 620-364-8831

Facility	Project Description	Type, Term	Value	Contact
ULTRAFILTRATION – REVERSE OSMOSIS – BORIC ACID RECOVERY – ZERO ENVIRONMENTAL RELEASE				
Arkansas Nuclear One	Tubular Ultrafiltration (TUF) unit for use upstream of selective IX system	Service 5/97–9/97	See ANO Demin. on p.1	Subrena Morris Chemistry Specialist 479-858-3517 smorris3@entergy.com
	Boric Acid Recovery System (BARS) and personnel to reduce silica concentrations in Unit 2 SFP	Project 2/02–3/02		
	BARS, personnel to reduce silica concentrations in SFP to <1 ppm	Project 3/04		
	BARS, personnel to reduce silica concentrations in SFP to <1 ppm	Lease 1/05-6/11	See ANO Demin on p.1	
Beaver Valley	BARS, personnel to remove silica from Coolant Recovery Tank	Project 10/02–11/02		Mike Steranko, Project Mgr. 724-682-4895
Calvert Cliffs	Personnel and equipment for permanent installation of BARS™ for silica processing	Lease 1/04 – 12/04		Jim Macklin, Project Mgr. 410-495-6819 James.E.Macklin@ccnppi.com
	Purchase of on-site BARS	Purchase 1/05		“ “
	Personnel Support for BARS operation	Lease As Needed		“ “
Connecticut Yankee	TUF system, personnel for SFP cleanup	Lease 8/05 – 2/06		Shawn Miller, Project Mgr. 860-267-3606
Crystal River	BARS and personnel for SFP Silica Removal Project	Project 8/99–9/99		Tom Lehmann, Project Mgr. 352-563-4830
		5/01–7/01 7/09–8/09		Mike Culver, Project Mgr. 352-563-4371 michael.culver@pgnmail.com
Diablo Canyon	RO, TUF equipment and personnel to process LRW stream	Demand 2/93–2/94		Clint Miller Consulting RW Engineer 805-545-4582 ccm1@pge.com
	One-vessel, 6 gpm BARS to remove >90% silica from BA evaporator concentrate, recover 90% BA	Lease 1/97–12/06		“ “
	Design, fabricate, and install 2 nd stage BARS (to function with existing unit) and shielded IX vessel to scavenge Antimony from BARS reject	Lease. 8/00–12/06		“ “
	BARS campaign to remove silica from SFP using South Texas Project BARS unit	Project 9/03		“ “
	TUF unit to process primary resin sluice water	Project 11/99 9/02		“ “
	Modular cross-flow membrane system w. personnel, to treat caustic Radioactive Regenerant Liquid	Project 10/01–12/01		“ “
	Cleanup of spent resin sluice water using TUF and backflushable Candle Filter System (CFS)	Project 5/04 – 6/04		“ “

Facility	Project Description	Type, Term	Value	Contact
ULTRAFILTRATION – REVERSE OSMOSIS – BORIC ACID RECOVERY – ZERO ENVIRONMENTAL RELEASE				
Farley	Design, fabricate, install Zero Environmental Release Option (ZERO) system, including Ozonator, TUF, WPS, RWRO, Paddle Dryer and HVV. Provide media, technical support, training, solids disposal liners	Purchase	1/09	David Tibbs Technical Contact 205-992-6248 x2dtibbs@southernco.com
	RO and microfiltration equipment, personnel to remove colloidal/dissolved silica, recover boron from 1MM gal. of water in two RWSTs	Service	11/91–8/92	Jack Kale Chem/Envir. Manager 205-899-5156, x4271
	BARS to remove silica from plant RWST. DTS personnel supported operations	Purchase	12/00	David Beaty Service Administrator 334-899-5156 x 4269
Fort Calhoun	TUF system and operation to achieve ANI 1 st quartile ranking	4/08 - TBD		See Fort Calhoun Demin on p. 2
	RWRO system and operation to process LRW for release	Demo/Lease	4/06 – TBD	“ “
Grand Gulf	ZERO system to provide total recycle of LRW. Mobile sub-systems using RO, UF, IX, centrifuge, drying	Service	5/95–9/96	Mike Michalski Radwaste Operations 601-437-6122
Indian Point	BARS, personnel to reduce silica in RWST to <1 ppm	Project	8/02–10/02	William Scholtens Sr. Specialist, Radwaste 914-734-5405
	BARS, personnel to reduce silica in SFP to <1 ppm	Project	8/04	Jim Peters Chemistry Supervisor 914-734-5617
	BARS, personnel to reduce silica in RWST to <1ppm	Project	1/06–2/06	“ “
	BARS w. BA Batching and Make-up System, personnel for RWST cleanup	Project	10/07–11/07 11/09	Karol Tyrell Chemstry Dept. 914-271-7120
Korea Hydro & Nuclear Power Co.	Design, fabricate, install 4 LRW processing systems for Shin-Kori (2) and Shin-Wolsong (2) power plants. Systems use RO technology for 100% recycle	Purchase	9/06–5/09	B.C. Park Dongduk Development 011-82-2-547-6301
McGuire	BARS for silica removal and enriched BA recovery in MOX fuel project, also disposable 2-cf Antimony-removal vessel w. shield	Purchase	9/04	Rodney Roberts Senior Engineer 704-875-4736 rroberts@duke-energy.com
Millstone	BARS Reject Effluent System: Disposable 2-cf Antimony-removal vessel w. annular shield	Purchase	1/08	Bill LaValley 860-444-4308
	BARS for SFP silica removal and boric acid recovery	Purchase	9/00	Alberto Airas Special Projects 860-444-5493
	Disposable 2-cf Antimony-removal vessel	Purchase	7/05	“ “
	Two 15-cf demins to provide isotopic	Lease/Purch.		“ “

Facility	Project Description	Type, Term	Value	Contact
ULTRAFILTRATION – REVERSE OSMOSIS – BORIC ACID RECOVERY – ZERO ENVIRONMENTAL RELEASE				
	source capture for BARS reject		5/02-12/03	
North Anna	BARS and Training Materials	Purchase	12/09	Paul Rittenhouse Project Manager 540-894-2214
Oconee	BARS to reduce silica in Borated Water Storage Tank and SFP to <1 ppm. Installation to include Antimony-removal vessel and shield; on-site support for startup, testing	Purchase	9/09	Patsy Earnhardt Project Manager 864-885-3423 pjearnhardt@duke-energy.com
Rancho Seco	RO equipment, personnel to treat approx. 200K gallons of borated water to releasable levels	Project	8/99–9/99 10/01–12/01	John Newey Project Manager 916-732-4859
Rocky Flats Building 771	Equipment and personnel for centrifugation, filtration and RO of water used for recycle to high-pressure concrete decon system; packaging of resulting TRU waste	Project	9/02-9/04	Stuart Giles Manager, MacTec 303-884-3365
Saint Lucie & Turkey Point	BARS to remove dissolved silica from primary water systems of St. Lucie Unit 1; also to be transported and used at Turkey Point, as needed	Purchase	6/02	Gordon McKenzie 561-467-7276 Paul Skinner 305-246-6134
Salem	TUF for use upstream of selective IX system	Service	5/96–10/01	See Salem Demin on p. 3
	BARS for treatment of boric acid process stream in lieu of evaporators	Service	5/99–10/01	
Seabrook	Radwaste Reverse Osmosis (RWRO) system as part of demin installation	Lease	4/06–4/11	See Seabrook Demin on p. 3
	BARS for silica removal: equipment, materials, training, operational oversight, maintenance	Lease	7/07–7/17	Billy Cox Contract Coordinator 603-773-7319
	RO, demin, personnel to process Advanced Scale Conditioning Agents (ASCA) chemical cleaning solution for effluent discharge in refuel outage	Project	3/08–5/08 9/09–10/09	william_cox@nexteraenergy.com " "
South Texas Project	BARS, w.startup personnel to reduce silica concentration in RWST to <1 ppm	Lease/Purch.	1/98–12/98	Milton Rejcek Effluent Waste Mgmt. 361-972-8571
Unitech (formerly INS)	ZERO system (w. TUF, spiral RO, DrumDryer) to provide 100% recycle of laundry wastewaters	Project	2/00	Mike Fuller, Manager, Eng'g Rad Pro 413-543-6911
V.C. Summer	BARS, personnel for removing silica from SFP and Refueling Water Storage Tank	Project	8/03-10/03	Pete Krawczyk Chemistry Manager 803-345-4160
	Two 15 cf sluiceable, skid-mounted fiberglass reinforced poly process vessels	Purchase		Tom Swift, HP 803-345-4277 tswift@scana.com
Vogtle	BARS, including sub-micron filter, for removal of silica from borated systems	Lease/Purch.	5/00–TBD	Greg Webb, Operations 706-826-3842 gdwebb@southernco.com
	TUF skid to process LRW stream,	Purchase		" "

Facility	Project Description	Type, Term	Value	Contact
ULTRAFILTRATION – REVERSE OSMOSIS – BORIC ACID RECOVERY – ZERO ENVIRONMENTAL RELEASE				
	ongoing maintenance services		7/00	
Vogtle Cont'd	2-cf disposable fiberglass reinforced poly vesse(s)ls w. Antimony-selective media to polish BARS reject	Purchase	1/05, 5/06 7/09, 12/09, 2/10	“ “
	RWRO system and dual-head DrumDryer w. shielding for use in achieving top decile INPO LRW processing performance	Purchase	8/06	“ “
Wolf Creek	ZERO system (w. TUF, spiral RO, DrumDryer) and personnel to process LRW stream	Lease/Purch.	10/98–7/11	John Freeman Supervisor, RW Ops 620-364-8831 x4555 jofreem@wcnoc.com

Facility	Project Description	Type, Term	Value	Contact
OZONE TREATMENT				
Bruce Power (Ontario, Canada)	Ozone Generator to remove TOC from approx. 100K gallons of heavy water	Lease/Purch.	8/08–5/09	Tim Elliott, Perform. Eng'r. 519-361-2673 x 5026 tim.elliott@brucepower.com
Fort Calhoun	Ozone Generator to condition process stream, protect downstream TUF™	See Fort Calhoun TUF system on p. 6		
Korea Hydro & Nuclear Power Co.	Included in 4 LRW processing systems for Shin-Kori and Shin Wolsong power plants	See Korea Hydro LRW system on p. 6		
Vogtle	Ozone Generator to condition process stream, protect downstream TUF™	Project/Purch.	8/01–5/04	See Vogtle BARS™ on p. 7
Wolf Creek	Ozone Generator as part of ZERO™ System – two units installed to facilitate organic destruction	Project	6/01–12/04	See Wolf Creek ZERO™ above

Facility	Project Description	Type, Term	Value	Contact
UNDERWATER PROJECTS				
Brookhaven National Lab	Cavity Clean-up System, including preloaded FRPs, submersible pump, media for UD-36A, leak detection, hosing	Purchase 2/08–4/08		Chris Jensen Field Engineer, ERP Project 631-344-7712
Connecticut Yankee	UD-36 underwater demins (2) and media for SFP cleanup	Lease 8/04–11/05		Allen Yates Operations Support 860-267-3184
Cooper	UF-600/2S underwater filter as standby support	Lease 4/00		Joe Kuttler Operations Supervisor 402-825-5272
Davis-Besse	Self-powered skimmer to capture small components/ chips during SFP vacuuming with UFV-260 filter	Purchase 9/01		Les Bowyer Supv. RW Operations 419-321-7229
	Underwater catch baskets for UF elements	Purchase 9/01, 12/01, 3/03		" "
D.C. Cook	UF-600 for filtration in support of refueling outage, UF-powered skimmer to remove floating debris and minimize hot particles	Lease/Purch. 3/92		John Fryer Supv., Rad Mat'l's. Control 616-465-5901 x 1333
	UF-600 for use in refueling outage	Purchase 1/94		" "
Diablo Canyon	Reactor Cavity Demin System w. submersible 18-cf vessel, pump for 75 gpm flow	Purchase 3/07		Curt Hanson Project Engineer 805-545-3383
Fort Calhoun	Waste Vacuum System and personnel to vacuum SIRWT, transfer canal and lower cavity during outage	Project 9/09–11/09		Marlyn Anderson RW Operations 402-533-7194 mpanderson@oppd.com
Hanford	Personnel, equipment for technology demonstration of underwater system of strainers and filters to capture and package sludge from hydrolasing and other decon work	Project 11/03–12/03		Rob Owen S.A. Robotics 970-663-1431
Humboldt Bay	UD-36 and storage vessel: resin vacuuming and fuel pellet capture system for use in SFP	Lease/Purch. 12/04–2/05		Don Strassman, PE 704-444-0839 eds1@pge.com
	Labor, equipment to vacuum spilled resin and sludge for SFP cleanup using UD-36. Unit then reconfigured to serve as submerged demineralizer	Project 2/06–4/06		" "
	Two 30-cf Resin Collection Vessels for use in SFP	Purchase 5/07		" "
	Modify and reconfigure UD-36 for vacuuming SFP	Project 8/07		" "
	Sludge Collection Filters (SCF), catch baskets and procedure for SFP Cleaning Project	Purchase 12/09		" "
	3 30-cf vessels, column test system, media and personnel to reestablish water clarity in the reactor cavity	Project/ Purchase 6/10		" "

Facility	Project Description	Type, Term	Value	Contact
UNDERWATER PROJECTS				
Indian Point 2	UD-36 underwater demin, preloaded with IX media, for chemistry and isotopic cleanup of SFP	Lease 9/02–3/03		William Scholtens Sr. Specialist, Radwaste 914-734-5405
Indian Point 3	UD-36 underwater demin, personnel as standby outage support to mitigate dose rates during refueling	Lease 9/99		Mr. Tom Phillip Outage Management 914-736-8413
Laguna Verde (Mexico)	Filter Consolidator and Accumulator	Lease 12/93–7/94		Wayne Hatton Project Mgr, GE Nuc. En'gy 408-925-4324
Maine Yankee	Resin-loaded UD-36 underwater demin to maintain dose rates, and chemistry in SFP	Purchase 1/98		Jim Rogers Engineer 207-882-4584
	UF-600 to filter, vacuum in fuel pool, maintain water clarity in cavity during refueling	Purchase 11/91		John Card RX Engineering 207-882-5159
	Standby UF-200/2S for use in refueling cavity pool during thermal shield repairs	Demand 8/93–9/93		Rich Peacock Engineering 207-882-6321
	UD-36 underwater demin pre-loaded with IX media, to maintain water chemistry during decommissioning	Lease 12/01–12/03		Don Comoletti Procurement 207-882-5218
	Sludge Collection Filter (SCF™), 2 Tri Nuclear filters, floating skimmer to maintain water clarity, 50-cf Pre-Conditioning Filter to maintain water chemistry, personnel to operate equipment during D&D Reactor Vessel Internals Segmentation Project. DTS encapsulated cutting waste w. polymer in 3-55 liners	Lease 3/00–11/00		Gary Guy Project Eng'r., Framatome 804-832-2672
Nine Mile	UF-600 to maintain water clarity and vacuum cavity internals in support of refueling outage	Purchase 3/92		Scott Stefanco Buyer 315-349-7935
North Anna	UF-600/2S with skimmer and filter lift tool	Purchase 4/97		Pete Hensley Operations Coordinator 703-894-2774
Nuklearna Elektrarna Krsko (Slovenia)	UF-600 to clarify reactor cavity water during fuel transfers, Filter Transfer Shield to move elements to RW shipping point	Purchase 9/10		Breda Vidmar breda.vidmar@nek.si
Oyster Creek	Equipment, personnel to operate and maintain temporary Reactor Water Cleanup Filtration system during 13R outage	Lease/Purch. 2/91–5/91		Gus Spivak Corporate Engineering 201-316-7126
Perry	Pool skimmer for torus cleanup	Purchase 3/94		Perry Moskowitz Operations 216-259-3737 x 5307
Shoreham	Underwater filter and underwater demin for use during plasma cutting in reactor vessel	Purchase 4/92		Dan Hirsch Project Manager, PCI 708-680-8100
South Texas	UF-600 for fuel pool cleanup	Lease		Tim Powell, RadPro Supv.

Facility	Project Description	Type, Term	Value	Contact
UNDERWATER PROJECTS				
Project		2/91–2/91		512-972-2611 x 7875
Three Mile Island	Furnish and install UD-36A for fuel pool demineralization	Lease 11/07		Chris Baker, TMI Unit 1 Mgr. Chem/RW/Envir. 717-948-8983 chris.baker@exeloncorp.com
Tokai (Japan)	Dual-train 250 gpm pressurized underwater filtration system for use in outage project	Purchase 6/92		S.L. Stein Buyer, GE Nuclear Energy 408-925-2340
V.C. Summer	UF-600 for fuel pool cleanup	Lease 10/91–12/91		Gary Guy RW Process Coordinator 803-345-4323
	UF-600 underwater filter/vacuum unit	Purchase 1/01		Tom Swift, HP 803-345-4277
Watts Bar	UD-36 and other equipment in support of Fuel Pool ops	Lease 8/04 – 12/04		Henry Champagne RadPro Ops Manager 423-365-8275
West Valley	Permanently-installed submerged water treatment system - demin and underwater filter	Purchase 8/91–8/93		Steve Reeves Senior Engineer 301-258-2410
	Self-powered skimmer/filter/pump	Purchase 5/96		Jack Schlant Senior Engineer 716-942-2028
Yankee Rowe	Two UD-36 underwater demin vessels for decon support during plasma cutting in RX cavity	Purchase 4/94		Bernie Jwaszewski Systems Engineer 508-779-6711 x2857
	UF-100/1S and Mechanical Filter for decontamination support during plasma cutting in RX cavity	Purchase 5/94		" "
	Two UF-600/2S Underwater Filters w. vacuum capabilities; slag tank to support decommissioning	Purchase 5/93		Jim Jesko Project Engineer, PCI 708-680-8100
	Specially-modified Filter Consolidator for CRP internals Segmentation Project	Lease 12/93–2/94		Bill Jones Project Manager 508-779-6711
	UF-600 for decontamination support during plasma cutting in RX cavity	Lease 1/94		" "

Facility	Project Description	Type, Term	Value	Contact
DEWATERING – DRYING - CENTRIFUGE				
Australian Nuclear Science and Technology Org.	Dual-head DrumDryer	Purchase 3/03		John Mellowes Halley & Mellowes 02-4388-4522
Battelle Memorial Institute	High Velocity Vacuum (HVV) dewatering system for use in release of SFP water	Lease 11/97		Cidney Voth Project Manager 614-424-4722
Beaver Valley	Single-head DrumDryer	Purchase 10/01		Al Castagnacci, Project Coordinator 724-682-5033 castagnacci@firstenergycorp.com
Comanche Peak	HVV dewatering service in support of demineralization contract	See Comanche Peak Demin. on p. 1		
Connecticut Yankee	Fill head, HVV, and personnel support to sluice and dewater media from plant vessels	7/05–8/05		Dave Hulbert 860-267-2556
Diablo Canyon	Single-head DrumDryer	Purchase 2/99		Clint Miller Consulting RW Engineer 805-545-4582 ccm1@pge.com
Fort Calhoun	HVV dewatering service in support of demineralization contract	See Fort Calhoun Demin. on p. 2		
International Atomic Energy Agency Vinca Institute of Nuclear Sciences	Single-head DrumDryer for research reactor in Belgrade, Serbia	Purchase 4/09		Dr. Milan Pesic 00381 11 2458222 mpesic@vinca.rs
Maine Yankee	HVV Dewatering System	Purchase 12/91		Adam Mancini, RW Coord. 207-882-5723
Manufacturing Sciences	Dual-head DrumDryer to dry mop water, RO concentrates and other collected liquids	Project 9/98–11/98		Jack Frye Supervisor 423-481-0455
Nuklearna Elektrarna Krsko (Slovenia)	Dual-head DrumDryer to dry sludge and evaporator concentrates; personnel to start up, train plant staff	Lease 2/10–12/10		Gricar Matjaz matjaz@gricar@nek.si
Perry	DrumDryer-4 to support liquid processing	Purchase 6/96		Al Schwenk RW Unit Supervisor 216-280--5564
Rancho Seco	Dual-head DrumDryer	Purchase 11/98		John Iverson Project Superintendent 916-452-3211 x4120
Rocky Flats Building 231	Equipment and personnel for mobile centrifuge separation of tank sludges. System PLC-controlled.	Project 7/02–7/03		Pat Fisher TMR Associates 303-202-1533
Unitech (formerly INS)	DrumDryer in support of ZERO System	See Unitech ZERO on p. 7		
Vogtle	Dual-head Drumdryer w. shield walls	See Vogtle RWRO & DrumDryer™ on p. 7		
Westinghouse Waltz Mill	Dual-head DrumDryer to dry process line hydrolasing waste and tank sludge, personnel support for installation and training	Lease 5/98–3/00		John Pavuk Purchasing 724-722-5392
Wolf Creek	DrumDryer in support of ZERO Syst.	See Wolf Creek ZERO on p. 8		

Facility	Project Description	Type, Term	Value	Contact
POLYMER SOLIDIFICATION				
Bechtel Bettis Naval Reactors Facility	Formulate and test injectable epoxy that cures at <170°	Project 7/05		Oscar Gonzalez Project Manager 208-533-5595
	Full-scale Mockup Tests of Water Pit Drain In-situ Solidification	Project 11/05, 1/06		“ “
BNFL (England)	Advance Polymer Solidification System to encapsulate large-scale objects in decommissioning	Purchase 2/05		Martin Hayes Project Manager 011-44-1925-832182
BWXT Services	Labor, Materials to design and conduct Proof of Concept Test for polymerization of the Recycle Water System Ion Exchanger at Naval Reactor Facility; conduct solidification campaign	Project 1/07-12/07		Arlan Moore, Project Engineer 208-533-8588 mooreae@bettis.gov
Connecticut Yankee	Receive, process 14 drums of Sump Sludge Mixed Waste for disposal	Project 11/06 – 1/06		Roy Haight Waste Mgmt Coordinator 860-267-3537
Diablo Canyon	Resin solidification and filter encapsulation w. VERI, VES and APS processes. Materials solidified include chromated resins, lead grit	Project 12/92–12/10		Clint Miller Consulting RW Engineer 805-545-4582 ccm1@pge.com
Dresden	Solidification of concentrate liquid decon solution, in situ solidification of spent IX resin	Project 12/90– 2/92		Roger Stobert Operations Manager 312-294-2920 x2827
FirstEnergy Fleet . Beaver Valley . Davis-Besse . Perry	Provide equipment, personnel and supplies for APS processing of resins and filters to produce a Stable waste form for disposal and storage	Project 6/10–12/13		D. Bruce Nolan, Buyer 419-321-8354 noldand@firstenergycorp.com
Idaho National Engineering Lab (EG&G Idaho)	55-gallon drum in situ solidification system to encapsulate hazardous materials (circuit boards, cadmium, lead) w. training in system operation	Purchase 5/93		Dave Tyson Project Engineer 208-526-5443
Knolls Atomic Power Lab / Puget Sound Naval Shipyard / Electric Boat Division	Materials, equipment, personnel to perform Proof Concept Testing, Full-scale Mockup Testing, and Full-scale testing to demo in situ solidification of IX resin and activated charcoal in decommissioned submarines. First in-situ, in-sub solidification done 5/02	Project 8/94-TBD		George Young, Lead Eng'r. 518-395-4893 Bob Liddell, Sr. Engineer 518-395-4892 Amy O'Malia, Engineer 360-476-5102 amy.omalia@navy.mil
Korea Hydro & Nuclear Power	APS test rig and polymer material for waste form testing of nuclear power plant waste streams. Tests conducted to verify/validate DTS' NRC-approved waste form.	Project 2007		Dr. Juyoul Kim Chief Scientist FNC Technologies 822-872-6415
Magnox Electric Trawsfynydd Pwr. Station (Wales) and NSG Environmental	Vinyl ester solidification materials for in-plant resin solidification system	Purchase 10/95- TBD		Nick Salmon Project Manager 011-441-453-813351
	Encapsulation test of filter with cesium selective ion-exchange media used for groundwater cleanup	Project 5/02		Jim Porter Project Manager 011-441-722-622670

Facility	Project Description	Type, Term	Value	Contact
POLYMER SOLIDIFICATION				
Paducah, Kentucky	Repackage drums of uranium chips waste, solidify with polymer to render non-pyrophoric, characterize waste and return to Paducah	Project 5/99-9/99		Greg Shaia Site Technical Rep. Bechtel-Jacobs 502-441-5223
Pilgrim Station (with WMG, Inc.)	Equipment, personnel, polymer to solidify 5 liners of resin for disposal at Clive, Utah	Project 6/09–10/09		Mark Carver – Entergy Ops Sr. Nuc. Support Coord. 601-368-5369 mcarve1@entergy.com
Princeton Plasma Physics Laboratory	Solidification of tritiated liquids for disposal at Westinghouse Hanford, WA disposal site	Demand 5/94–12/96		Mike Karl Subcontract Admin. 609-243-2076
S.A. Robotics	Materials and consulting for VES Demo stabilization of Wndscale Pile Solids	Project 11/06		Matt Cole Chief Mech/Project Eng'r. 970-663-1431 x108 matt@sarobotics.com
Savannah River	Treatment of silver-coated packing material and aqueous mercury and lead by VES encapsulation to meet land disposal restrictions	Project 8/94-4/95		K. Vann Anderson Procurement Admin. 803-644-1395
SOCODEI (Electricite de France)	Vinyl ester solidification materials	Purchase 3/94		Robert Thivet Technical Manager (1) 34 32 36 36
V.C. Summer	Dewater and in situ solidify chelant-containing resins from LOMI decon of fuel assembly	Service 11/91–12/91		Gary Guy RW Process Coordinator 803-345-4323
Westinghouse Naval Reactors Facility	Testing, full-scale demo, and delivery of solidification system to stabilize radioactive zircaloy swarf underwater to mitigate fire hazard	Project 10/91–1/95		Clay Hess Project Engineer 208-535-5280

Facility	Project Description	Type, Term	Value	Contact
MISCELLANEOUS PROJECTS				
Arkansas Nuclear One	Equipment and personnel for chemical adjustment and cleanup of sodium hydroxide release	Service	12/93-5/94	Bill McKelvy RadChem Supervisor 501-964-5822
	Design, manufacture mods to Spent Resin Tank internals	Purchase	1/01	Gary Gray 501-858-5393
	Specially-designed 35-gallon drum with lid, wheeled dolly, filtration mechanism to automatically filter/remove organics and isotopes from mop water	Purchase	5/02	Greg Stephenson Chemistry Specialist 479-858-3519 gstephe@entergy.com
Brookhaven National Lab	Cask/shield system for used in source surveys and characterization	Lease/Purch.	6/94 -8/95	Stan Hodges Project Manager, RUST 803-779-3293
Catawba	Equipment and personnel to remove resin sludge from Spent Resin Storage Tank	Project	10/03	Jeb Byrum Project Manager 803-831-3000 x2718
Comanche Peak	Specially-designed 55-gallon drum(s) with lid, wheeled dolly, filtration mechanism to automatically filter and remove organics from mop water	Purchase	11/98	Lisa Hughes-Edwards Operations RW Supervisor 254-897-0295
Crystal River	Chemical Addition Station	Purchase	12/92	Phyllis Dixon Project Engineer 904-795-6486 x 4512
Davis-Besse	Transport liners of grossly dewatered Powdex to Toxco for processing and Bulk Survey Free Release (BSFR) disposal. Refurbish, return liners to plant	Project	5/07 - TBD	Jack Reuter Project Manager 419-321-7425
	Receive, refurbish, consolidate liners for return to plant for reuse	Service	2/10–12/13	“ “
DEMCO Port of Tacoma (WA) Project	Conduct bench-scale testing, provide portable unit to treat construction water to meet discharge criteria for leachate containing arsenic, copper, lead, zinc, phenol	Project	1/09	Keith Walker Project Manager 716-674-0883
Eletronuclear Angra dos Reis (Brazil)	2,200T Supercompactor used to compact 2,250 drums of DAW for total VR >60%. Compacted drums placed in DTS storage boxes and returned to RW storage facility	Project	3/06 – 5/06	Vera Barreto Radwaste Manager 55-21-336-29237 verab@eletronuclear.gov.br
Fort Calhoun	Close-coupled lifting device for On-Site Storage Containers	Purchase	12/92	Joe Mattice RW Operations 402-533-7195
	3” steel-clad lead right-angle corner shield system w. lid and lift attachments; for 30-cf vessel	Purchase	3/01	“ “
	Automated, remotely operated sampling station for sampling primary resin and LRW resin sluices	Lease	1/03–4/07	See Fort Calhoun Demin. on p. 2

Facility	Project Description	Type, Term	Value	Contact
MISCELLANEOUS PROJECTS				
Fort Calhoun Cont'd	Automated, remotely operated sampling station for sampling primary resin and LRW resin sluices	Purchase 9/04		Marlyn Anderson RW Operations 402-533-7194 mpanderson@oppd.com
	On-site concrete vault Storage System to hold up to 12 200-cf liners. Accommodates air sampling, lighting and remote visual inspection	Purchase 12/09		" "
Foster Wheeler	Fabricate 2 skid-mounted, Chill Water Supply Pump Systems ; one rated @ 250 gpm, one @ 650 gpm	Purchase 4/02		Tim Hallman 865-481-8687
LaSalle	Design, customize 2 dedicated Control Rod Drive Transport Trailers for critical path outage activities	Purchase 10/98-11/98		Jon Rogozinski Tech. Supv, Reactor Svcs 815-357-6761 x2153
(n,p) Energy, Inc.	Produce specialty resin for primary system cleanup	Purchase 1/00-TBD		Pat Robinson, President 775-424-3434 npe@npenergywater.com
Perry	Design, fabricate deliver reusable 190-size steel liners to mate to Plant's remote grapple and fit over short-wall	Purchase 5/10 – 9/10		Alan Schwenk Radwaste Specialist 440-280-5564 akschwenk@firstenergycorp.com
Reily Foods	Design, fabricate Mobile Water Treatment System to purify/sterilize spring water for sale as bottled drinking water. Incorporated RO and ozone treatment technologies in mobile sealand trailer.	Purchase 12/05		Jeffery Gamble Production Manager 865-546-2120
Slovenske Elektrarne (Slovakia)	Fabricate test skid, demonstrate Ozone Oxidation, Tubular Ultrafiltration, Selective IX and Concentrate Drying: technologies to treat LRW concentrates to obtain crystalline salts with activity < 300 Bq/kg for release to environment	Project 4/09–10/10		Ivan Smiesko, Head of Chemical Control. +421 033 597 2275 smiesko.ivan@ebo.seas.sk
SPAFAS	Construct and pilot test Avian Feed Sterilization System w. Holoflite dryer and conveyor	Purchase 6/97, 2/98		Dave Hansel Director of Engineering 860-889-1389
Turkey Point	Automated, remotely operated sampling station for sampling primary resin and LRW resin sluices	Purchase 1/05		Paul Skinner Primary Chemistry Supv, 305-246-6134

PROCESSING MEDIA, OIL-ABSORBANT BOOMS							
Facility	DT-10/11 Carbon	DT-20 Cation	DT-60 Anion	DT-30 Cesium Select	DT-90 Cobalt Select	DT-47 Antimony Select	Oil- Absorb. Booms
Advanced Medical Systems	X	X	X				
Arkansas Nuclear One	X	X	X	X	X	X	
Battelle Memorial Institute			X				
Beaver Valley	X				X	X	
Bechtel-Bettis	X			X			
Brookhaven National Lab	X	X	X				
Callaway	X						
Comanche Peak	X	X		X	X		
Connecticut Yankee	X		X	X	X		
Crystal River					X		
Davis-Besse				X			
Diablo Canyon	X				X		
Dresden							X
Eastern Technologies				X			
Farley	X	X	X	X	X	X	
Fort Calhoun	X	X	X	X		X	X
Grand Gulf	X	X	X	X			
Humboldt Bay	X	X		X			
Indian Point		X	X	X	X		
Korea Atomic Electric	X		X	X	X		
Maine Yankee	X	X	X	X			
McGuire						X	
Millstone		X	X			X	
Mound Technical Center		X	X				
Nat'l Institutes of Health	X						
North Anna & Surry	X	X	X		X		
Perry				X	X		
Prairie Island				X			
Quad Cities							X
Rancho Seco	X	X	X	X		X	
Salem	X	X	X	X	X		
Savannah River	X						
Seabrook	X	X	X	X	X	X	
Shoreham		X					
Susquehanna	X				X		
Taiwan Power	X			X	X		
Trojan		X	X				
Turkey Point	X		X	X		X	
University of Illinois		X	X				
V.C. Summer	X						
Vogtle	X				X	X	X
Waterford	X				X		
West Valley		X	X	X			
Wolf Creek	X	X	X	X	X	X	X