

Diversified Technologies Services, Inc.

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

Project & Experience List

| 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 |
| 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 | | " " |
| | 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 |

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| DEMINERALIZATION - FILTRATION | | | | |
| 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. Remotely operated system interfaces with plant controls. | Purchase 9/01 | | B.C. Park Dongduk Development 011-82-2-547-6301 |
| 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 |

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| DEMINERALIZATION - FILTRATION | | | | |
| Maine Yankee Cont'd | 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 waste-water 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 process vessel, duplex mechanical pre-filters, and media | Purchase 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 |

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| DEMINERALIZATION - FILTRATION | | | | |
| 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 1/05–12/09 | | 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 |
| | 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 |
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| 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 | |
| | Boric Acid Recovery System (BARS) and personnel to reduce silica concentrations in Unit 2 SFP | Project 2/02–3/02 | | Subrena Morris Chemistry Specialist 479-858-3517 smorris3@entergy.com |
| | 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 | | “ “ |

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| 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 source capture for BARS reject | Lease/Purch. | 5/02-12/03 | “ “ |

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|---|---|-------------------------------------|----------------------------|--|
| ULTRAFILTRATION – REVERSE OSMOSIS – BORIC ACID RECOVERY – ZERO ENVIRONMENTAL RELEASE | | | | |
| 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 pjohnhardt@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 Building771 | 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. | 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, ongoing maintenance services | Purchase 7/00 | | " " |

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| ULTRAFILTRATION – REVERSE OSMOSIS – BORIC ACID RECOVERY – ZERO ENVIRONMENTAL RELEASE | | | | |
| 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 | “ | “ |
| | 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 |

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| 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 | |

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| 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 |
| 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 | | " " |
| 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 |

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| UNDERWATER PROJECTS | | | | |
| 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 |
| Nine Mile | 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 |
| | UF-600 to maintain water clarity and vacuum cavity internals in support of refueling outage | Purchase | 3/92 | Scott Stefanco Buyer 315-349-7935 |
| | UF-600/2S with skimmer and filter lift tool | Purchase | 4/97 | Pete Hensley Operations Coordinator 703-894-2774 |
| | 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 Project | UF-600 for fuel pool cleanup | Lease | 2/91–2/91 | Tim Powell, RadPro Supv. 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 |

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| UNDERWATER PROJECTS | | | | |
| 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 System | 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 System | 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 system 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 Coordinator 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 |
| Nulearna Elektrarna Krsko (Slovenia) | Dual-head DrumDryer and personnel for startup; training of 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 Syst. | See Unitech ZERO on p. 7 | | |
| Vogtle | Dual-head Drumdryer w. shield walls | See Vogtle RWRO & DrumDryer™ on p. 7 | | |
| 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 Idaho | 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 12/92–1/10 | | 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 |
| 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 |
| Naval Reactors Facility (Westinghouse) | Testing, full-scale demo, and delivery of solidification system to stabilize radioactive zircaloy swarf underwater to mitigate fire hazard | Project 10/01–1/95 | | Clay Hess Project Engineer 208-535-5280 |

| 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 |

| 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 |
| | Waste Vacuum System and personnel to vacuum SIRWT, transfer canal and lower cavity during outage | Project 9/09–11/09 | | “ “ |
| | 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 |
| 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 (Slovakiaa) | Demonstration of 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 4/09–1/10 | | Ivan Smiesko, Tech. Mgr. +421 033 497 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 |