

2007**Cooper Nuclear Station
Nebraska Public Power District**

Brownville, NE

Karl Becker Project Manager 402-825-5823

July 2007

Bluegrass performed diamond wire cutting of a stub wall in the existing Chemistry Lab. The wall measures 7' x 8' x 18" thick and will be cut into 3' sections.

Nine penetrations of various sizes will be modified or added to the second and third floors of the Radiation Waste Building.

**Catawba Nuclear Station
Duke Energy Carolinas, LLC**

York, SC

Jim Anderson Project Manager 803-831-4132

June 2007

Bluegrass performed diamond wire cutting to make an opening in the Reactor Head Stand in Units 1 and 2 during planned Spring 2007 outage.

**Wall Shaver Demonstration
British Nuclear Group**

Greenville, AL

Bob Hulick BCCI Project Manager 800-734-2935

Robert Turnock BNG Project Manager 011 44 019467

June 2007

Bluegrass designed and provided a mockup wall 20 ft long and 8 ft high with an internal diameter per the project specification for testing of the Marcris Wall Shaver. A written report will be submitted.

**Sequoyah Nuclear Plant/TVA
TVA**

Soddy Daisy, TN

Kevin Dutton TVA Project Manager 423-843-8909

May 2007

Bluegrass performed diamond wire cutting of two walls to gain access for HUT tank removal. The front wall measured 8 ft. wide by 7 ft. 4 in. high and 2 ft. 3 in. thick. The back wall measured 4 ft. 7 in. wide by 7 ft. 4" high and 3' thick.

**Browns Ferry Nuclear Power Plant
Tennessee Valley Authority**

Decatur, AL

Greg Bentley Contracts Manager 256-729-3340

March 2007

Bluegrass performed diamond wire cutting to remove condensate booster pump and pump motor foundations during EPU modifications during Spring 2007 outage.

**Grand Gulf Nuclear Station/MS Entergy Operations, Inc./Collector Wells Inc.
Port Gibson, MS**

Mark Nilges Project Manager Collector Wells 614-888-6263

February 2007

Bluegrass performed diamond wire cutting to make an opening in a caisson approximately 15 ft. high and 10 ft. wide. The caisson had 2 ft. thick walls.

2006

Hatch Nuclear Plant Southern Companies

Baxley, GA

Mike Googe Project Manager 912-537-5900 ext. 2475

October 2006

Bluegrass technicians performed diamond wire cutting of a shield plug on the refuel floor which measures 15.75 ft in diameter and 3' high.

McGuire Nuclear Station Duke Energy Carolinas, LLC

Huntersville, NC

Bill Hutchinson Project Manager 704-875-5556

September 2006

Bluegrass technicians performed diamond wire cutting of foundations and curbs in lower containment units 1 and 2.

Watts Barr Nuclear Plant Bechtel Energy Corp.

Spring City, TN

Matthew Glaser Project Manager 301-228-6078

September 2006

Bluegrass technicians performed diamond wire cutting of existing plant concrete to create construction openings in portions of Containment and to provide rigging holes to remove the shield building dome during the Cycle 7 refueling outage for Unit 1 starting September 11, 2006.

Catawba Nuclear Station Duke Energy Carolinas, LLC

York, SC

Jim Anderson Project Manager 803-831-4132

August 2006

Bluegrass performed diamond wire cutting to make an opening in the Reactor Head Stand in Units 1 and 2 during planned Fall 2006 outage.

Lacrosse Boiling Water Reactor Bigge Power Constructors/Duratek Inc.

Genoa, WI

Tom Bostrom Project Manager

Ahmad Ghandour Project Manager 803-758-1803

September 2006

Bluegrass technicians are performing concrete and metal wire cutting in support of decommissioning project in fall of 2006. Project completed in the Spring of 2007.

**Watts Barr Nuclear Plant
Bechtel Energy Corp.**

Spring City, TN
Matthew Glaser Project Manager 301-228-6078
June 2006

Bluegrass technicians performed core drilling in the Additional Equipment Building north wall. 6" and 8" diameter penetrations were made 2 foot 6 inches deep.

**Fermi Nuclear Power Plant/DTE Energy
Newport, MI**

Chris McDonald 734-586-5795
April 2006

Bluegrass performed diamond wire cutting for the enlargement of an opening in the bio shield wall to facilitate removal of the moisture separator re-heaters during spring 2006 outage.

**Grand Gulf Nuclear Station/MS Entergy Operations, Inc./Reynolds Inc.
Port Gibson, MS**

Reynolds, Inc. 812-865-3232
February 2006

Bluegrass performed diamond wire cutting of an opening at the water intake structure.

**Grand Gulf Nuclear Station/MS Entergy Operations, Inc.
Port Gibson, MS**

Moshen Miri, P.E. 601-437-2492
February 2006

Bluegrass performed diamond wire cutting of a section of the Aux Building Rail Road Bay concrete wall. The plug measured 17 ft. long, 3ft.7in. high and 1 ft. 4in. thick.

**Rancho Seco Nuclear Generating Plant
Bartlett Nuclear/SMUD**

Herald, CA
Wayne Hawley 916-732-4938
Feb 2006

Bluegrass supplied Bartlett Nuclear with equipment and technical staff to support the diamond wire cutting of a reinforced concrete wall in the Spent Fuel Building.

**Grand Gulf Nuclear Station/MS Entergy Operations, Inc.
Port Gibson, MS**

Moshen Miri, P.E. 601-437-2492
January 2006

Bluegrass technician's diamond wire cut approximately 12 inches off the top of existing man-way.

2005**Newport Chemical Depot/TVA****Newport, IN**

David Weir 765-245-4069

December 2005

Bluegrass supported the diamond wire cutting of four concrete saddle supports for the 9- foot diameter bulk storage tanks 303A and 303B with equipment and technician.

Fermi Nuclear Power Plant/DTE Energy**Newport, MI**

Chris McDonald 734-586-5795

November 2005

Bluegrass technicians diamond wire cut a 20' x 20' opening in the turbine building wall to support removal of the moisture separator re-heaters.

Shearon Harris Nuclear Plant**Progress Energy Services Carolina's, Inc.**

New Hill, NC

Howard Jarrell Project Manager 919-362-2777

November 2005

Bluegrass technicians diamond wire cut an opening 2' wide x 2' high through a 39-inch thick concrete wall. The block was then cut into 4 pieces for removal.

Brunswick Nuclear Plant**Progress Energy Carolina's, Inc.**

Southport, NC

Neil Worden Project Manager 910-457-3083

June 2005

Bluegrass performed diamond wire sawing of four concrete pads in the Turbine Building.

Lacrosse Boiling Water Reactor**Bigge Power Constructors/Duratek Inc.**

Genoa, WI

Tom Bostrom Project Manager

Ahmad Ghandour Project Manager 803-758-1803

August 2005

Bluegrass participated as team member to develop a Draft Reactor Vessel Removal Plan for the LACBWR facility at Genoa, WI.

Point Beach Nuclear Plant**Nuclear Management Company LLC**

Two Rivers, WI 54241

Joe Krentz Project Manager 920-755-6442

April 2005

Bluegrass performed diamond wire sawing of the reactor missile shield Units 1 and 2 in support of the reactor head replacement project.

**Watts Barr Nuclear Plant
Bechtel Energy Corp.**

Spring City, TN
Matthew Glaser Project Manager 301-228-6078
March 2005

Bluegrass technicians core drilled 18 inch diameter holes in the Reactor Containment Dome during N-1 modifications.

**US DOE
CH2M Hill Mound**

Miamisburg, OH
Bob Werstner 937-865-4862
Jan 2005

Bluegrass technicians performed saw cutting of the R and SW building slabs in support of the remediation of the Mound site into an industrial complex for use by the city of Miamisburg, Ohio.

2004**US DOE
CH2M Hill Mound**

Miamisburg, OH
Bob Werstner 937-865-4862
Dec 2004

Bluegrass technicians removed the T Building facility sumps with a Brokk 250 robotic hammer.

**Cooper Nuclear Station
Nebraska Public Power District**

Brownville, NE
Romeo Serranzana 402-825-5078
November 2004

Bluegrass technicians diamond wire cut a rectangular opening in the concrete wall located between the Condensate Pump Area and the Turbine Generator Condenser Area.

**Quenhanna Decommissioning Project
Scientech, Inc.**

Karthaus, PA
Lee Penney 860-210-3075
March 2004

Bluegrass technicians performed diamond wire cutting and demolition services in support of site decommissioning.

**Big Rock Point
BNFL**

Charlevoix, MI
Rob McEwen BNFL 231-547-8411
March 2004

Bluegrass technicians cut over 1,500 tons of highly activated and contaminated concrete surrounding the reactor vessel cavity to support decommissioning of the Big Rock Plant.

**Robinson Nuclear Plant
Progress Energy Carolinas, Inc.**

Hartsville, SC
Avery Jones Lead Engineer 843-857-5276
April 2004

Bluegrass cut and removed shield walls beneath fuel transfer canal to support corrosion inspection.

2003**Rocky Flats Site
US DOE**

Golden, CO
Bruce Deets
Dec. 03-Nov.04

Bluegrass supplied equipment and training for shaving contaminated concrete in numerous buildings at the Rocky Flats facility. Six to eight shavers were utilized to shave plutonium contaminated concrete while containing all the dust. Bluegrass also designed and fabricated a remotely operated shaver to shave walls and ceilings.

**Rancho Seco Nuclear Generating Plant
SMUD**

Herald, CA
Wayne Hawley 916-732-4938
November 2003

Bluegrass technicians performed diamond wire cutting in support of the Reactor Vessel Head Segmentation project as well as segmenting reactor head for transport.

**Callaway Nuclear Plant
Fulton, MO**

Atlantic Group
Kevin Glascock 573-676-4533
November 2003

Bluegrass technicians performed diamond wire cutting of the Rad Waste Building Drum labeling station.

**Palo Verde Nuclear Generating Station
Wintersburg, AZ**

F.H. McDougall Project Manager 623-393-7016
September 2003

Bluegrass technicians performed diamond wire cutting in support of SGR project.

**Connecticut Yankee, Haddam Neck Nuclear Plant
Haddam Neck, CT**

Mike Chwatek Conn Yankee D&D Mgr. 860-267-3521
August 2003

Bluegrass technicians performing diamond wire cutting of reactor nozzles and safe ends in support of the plant decommissioning.

**San Onofre Nuclear Generating Plant
Southern California Edison**

Greg Vechinski 949-368-9567

July 2003

Bluegrass technicians performed concrete cutting in support of the decommissioning of Unit 1 for the demolition of the Sphere Enclosure Building.

West Valley Demonstration Project

Joe Kwiatkowski

July 2003

Bluegrass technicians diamond wire sawed steel box encased with concrete in support of decommissioning activities.

**Connecticut Yankee, Haddam Neck Nuclear Plant
Bechtel Power Corp.**

Haddam Neck, CT

Jim McAnally Site Manager cell#860-267-2285

March 2003

Bluegrass technicians performing diamond wire cutting of reactor nozzles and safe ends in support of the plant decommissioning.

**Sequoyah Nuclear Plant/TVA
Bechtel Power Corporation**

Soddy Daisy, TN

Chuck Weaver, Construction Site Manager

March 2003

Bluegrass technicians performed concrete cutting in support of the SGR Project.

2002**Savannah River Site
Bechtel**

Aiken, SC

Russell Snow 803-208-6824

December 2002

Bluegrass technicians performed diamond wire cutting in Hot Cell #8, Bldg 773-A at the Savannah River Site.

Bechtel Bettis Incorporated

West Mifflin, PA

Gary Toth 412-476-5128

September 2002

Bluegrass technicians performed diamond wire cutting of a fuel assembly mock up per the request of Bechtel Bettis.

**Callaway Nuclear Plant
Ameren UE**

Fulton, MO

Dave Zimmerman 573-676-8156

August 2002

Bluegrass technicians performed additional diamond wire cutting of foundations in the Radwaste Building.

Farley Nuclear Plant
Southern Nuclear Operating Co.

Ashford, AL
Mike Kuykendall 205-992-5307
September 2002

Bluegrass technicians diamond wire cut a section from the shield wall of the Unit 2 reactor head stand.

Callaway Nuclear Plant
Ameren UE

Fulton, MO
Dave Zimmerman 573-676-8156
August 2002

Bluegrass technicians diamond wire cut foundations and notches in the Radwaste Building.

Fermi Nuclear Power Plant
DTE Energy

Newport, MI
Zen Bezaniuk 734-586-4191
July 2002

Bluegrass technicians diamond wire cut the concrete foundation supports for the heat exchangers in the Reactor Building.

San Onofre Nuclear Generating Plant
Southern California Edison

Bechtel Power Corporation
John Lemmel, Construction Manager 949-368-9262
July 2002

Bluegrass technicians diamond wire sawed portions of the roof slabs enclosing the three Steam Generators (SG's) and Pressurizer (PZR) in the Unit 1 Containment at SONGS in support of the Large Component Removal and Transport Project.

San Onofre Nuclear Generating Plant
Southern California Edison

Tim Clepper 949-368-7949
June 2002

Bluegrass technicians successfully completed diamond wire cutting of the reactor pressure vessel nozzles in support of the Unit 1 decommissioning project.

San Onofre Nuclear Generating Plant
Southern California Edison

Tim Clepper 949-368-7949
March 2002

Bluegrass constructed a full scale mockup of the San Onofre reactor vessel and nozzles to be cut. Using its proprietary dry cutting technique, Bluegrass successfully cut the 51 inch O.D., 12 inch thick wall nozzle.

**McGuire Nuclear Station
Duke Energy Corporation**

Huntersville, NC
William B. West 704-875-4818
February 2002

Bluegrass technicians diamond wire sawed the concrete base of the 2C Condensate Booster Pump (CBP) Motor for implementation of NSM22526 CBP Motor Replacement.

2001**Maine Yankee Plant
Environmental Alternatives, Inc.**

John Sharp 603-352-3888 Keene, NH
December 2001-2002

Bluegrass is supporting the decommissioning of Maine Yankee through the rental of the Marcris Concrete Wall Shavers. A Floor Shaver unit was purchased to remove contaminated floor surfaces. Both units are being used in the Primary Auxiliary Building and the Containment Spray Building.

**Shearon Harris Nuclear Power Plant
Carolina Power & Light Co.**

Demonstration Site: Greenville, AL
Robert M. Hulick BCCI 800-734-2935
Paul Kelly Bechtel Harris SGRP Site 919-362-3002 ext. 4624 New Hill, NC
August 2001

Bluegrass technicians performed a demonstration of "Dry Wire Saw Structural Steel Member Cutting" in support of the Harris Steam Generator Replacement Project. A structural steel beam section weighing 3463 pounds was used to demonstrate this dry cutting technique.

Brookhaven National Laboratory

Upton, NY
Clyde Newson 631-344-2646
August 2001

Bluegrass technicians diamond wire sawed reinforced concrete ductwork sections at the previously shut down Brookhaven Graphite Research Reactor (BGRR) in support of the BNL BGRR decommissioning project.

**Grand Gulf Nuclear Station
Entergy Operations Inc.**

Port Gibson, MS
Gary Stolts 601-437-6722
April 2001

Bluegrass technicians diamond wire sawed three sections of basin walls. Seven separate cuts were made to free the sections from the column support foundations and sump walls.

**McGuire Nuclear Station
Duke Energy Corporation**

Cecil Riddle 704-875-5684 Huntersville, NC
March 2001

Bluegrass technicians diamond wire sawed booster pump foundations in the turbine building in support of facility upgrade.

**South Texas Project SGRP, Unit 2
Bechtel Energy Corp.**

Wadsworth, TX
Steve Claybaugh Project Manager, Bechtel Energy
February 2001

Bluegrass technicians performed diamond wire cutting and splice plate drilling of Unit 2 concrete biological shield wall in support of the SGRP.

**J.M. Farley Nuclear Plant Unit 2
Bechtel Construction Corporation**

Ashford, AL
Billy Petelos 334-814-4975
February 2001

Bluegrass diamond wire cut the bio-shield wall for Unit 2 in support of SGRP.

**Georgia Tech Reactor Deactivation and Decommissioning
IT/OHM Corporation**

Atlanta, Georgia
Gede Kalinauskas 770-663-1452
February 2001

Bluegrass technician used robotic hammer to excavate ss pipe in support of the decommissioning of the Georgia Tech Reactor.

**GTS Duratek Memphis Services
Memphis, TN**

Gerard Policastro 901-947-7845
February 2001

Bluegrass technicians performed metal cutting of steam generator vessel with diamond wire saws.

2000**Westinghouse Waltz Mill Site
Morrison Knudsen Corporation**

Madison, PA
Gary Lemon 724-722-5379
September 2000 – 2001

Bluegrass is supporting the decommissioning of the Waltz Mill test reactor through the rental of the Marcris Concrete Wall and Floor Shavers. In the fuel transfer canal 6500 sq. ft. of contaminated wall and 1400 sq. ft. of contaminated floor has been shaved ¼" deep. In the primary coolant piping tunnel 3500 sq. ft. of contaminated wall and 2100 sq. ft. of contaminated floor has been shaved 1/8" to 3/16" deep.

**Clemson University
Service & Support Facility**

Clemson, SC
Don Erich 864-646-2413 ext.207
September 2000

Bluegrass diamond wire cut stainless steel, glass-filled canisters in support of the Can-Canister cold pour test demonstration for the plutonium immobilization activity. Bluegrass' diamond wire cutting was performed at the Clemson Environmental Technology Lab for the Savannah River Site.

Arkansas Nuclear One Unit 2 (ANO2)**Entergy Operations, Inc.****Bechtel Power Corporation**

Russellville, AK

Steve Pearson, Construction Site Manager, 501-858-4181

September 2000

Bluegrass used robotic hammers to make an opening in the containment wall for replacement of the steam generators. New temporary concrete foundations, poured specifically for the SGRP, will be diamond wire cut into smaller sections for removal from the site.

Turkey Point Nuclear Plant**Florida Power & Light Company**

Florida City, FL

Mark Feroglia, Turkey Point, 305-246-7283

October 2000

Bluegrass technicians diamond wire cut a 25.6-ton shield plug, 14'9" by 2' thick- into four sections for removal.

Connecticut Yankee**Haddam Neck Nuclear Plant**

Demonstration Site: Bluegrass Concrete Cutting Inc.(BCCI) Greenville, AL

Robert M. Hulick BCCI 334-382-0815

Ed Snatchko, Bechtel Power Corporation 860-267-3159

September 2000

Bluegrass diamond wire cut the carbon steel, reactor nozzle mock-up. The nozzle was 55" in diameter with a 28" annulus.

Princeton University Plasma Physics Laboratory (PPPL)

Princeton, NJ

Keith Rule PPPL 609-243-2329

August 2000

Bluegrass was contracted to assist PPPL with an assessment of diamond wire concrete cutting methods and technology for the Tokamak Fusion Test Reactor (TFTR) decommissioning. Bluegrass provided design and engineering analysis of specialized new equipment using liquid-nitrogen as wire coolant.

In-depth DOE studies of Bluegrass' diamond wire cutting technologies are available at the website of the U.S. Department of Energy, Office of Environmental Management, Office of Science and Technology: <http://ost.em.doe.gov/tms>

Technology Management System (TMS)

Technology Overview: Tech ID #2107

"Liquid-Nitrogen Cooled Diamond-Wire Concrete Category"

Technology Overview: Tech ID #2389

"Diamond Wire Cutting of the Tokamak Fusion Test Reactor Vacuum Vessel"

A demonstration summary of "Diamond Wire Cutting Saw," reported in the 1999 Annual Report of The Deactivation and Decommissioning (D&D) Focus Area, entitled, Tomorrow's Technologies Today: Dismantlement is available from the US DOE Office of Scientific and Technical Information.

**Connecticut Yankee
Haddam Neck Nuclear Plant
Bechtel Power Corporation**

East Hampton, CT
Ed Snatchko 860-267-3159
May 2000

Bluegrass diamond wire cut the bio-shield walls and reactor nozzles in support of the decommissioning of the Connecticut Yankee Nuclear Plant.

**Georgia Tech Reactor Deactivation and Decommissioning
IT/OHM Corporation**

Atlanta, GA
Gede Kilanaukas 770-663-1452
April 2000

Bluegrass diamond wire cut the reactor shield plug just below the lead liner. The concrete aggregate was steel punchings, and weighed 280 lbs per cubic foot. The shield had a 1" thick stainless steel liner.

**Rancho Seco Nuclear Plant
Sacramento Municipal Utility District**

Herald, CA
Dennis Gardiner 916-452-3211
March 2000

Bluegrass performed a technology demonstration of the Marcris Diamond Floor Shaver and MWS300 Wall Shaver, at the Rancho Seco Nuclear Power Plant turbine building, as requested by the DOE and EPRI, and in conjunction with the National Energy Technology Laboratory (NETL) and several nuclear utility companies. The floor and remote controlled surface decontamination shaving systems shaved concrete at 1/8" to 1/4" depths, producing a completely smooth, finished surface.

Demolition Technologies, Inc., sister company to Bluegrass, is the North American distributor of the Marcris MFS250 Floor Concrete Shaver and the MWS300 Concrete Wall Shaver.

For more information:

<http://www.dandd.org>

Multimedia Information System

Category: Mechanical Surface Removal, Milling/Shaving
MSW300 Wall Shaver, DT25 Floor Shaver

<http://www.concreteshaver.com>

**J.M. Farley Nuclear Plant
Bechtel Construction Corporation**

Ashford, AL
J.M. McLemore 301-417-3000
March 2000

Bluegrass diamond wire cut the bio-shield wall down to operating floor level, into four 25-ton sections in support of SGRP.

**Hemispheric Center for Environmental Technology
Florida International University**

Miami, FL
Cindy Zhang 305-348-4238
February 2000

Bluegrass performed a technology demonstration of the Marcris MSW300 Wall Concrete Shaver, mounted to a remotely operated Brokk 250, as part of the FIU-HCET technology assessment program. Six hundred feet of uncoated concrete walls, coated concrete ceilings and coated brick walls was removed at 1/4" depths.

Detailed information on this demonstration is available at the website of Multimedia Information Systems (MIS): <http://www.dandd.org>

Category: Mechanical Surface Removal, Milling/Shaving
MSW300 Wall Shaver and Floor Shaver

Shavers are distributed in North America by Demolition Technologies, Inc., sister company to Bluegrass.

**Calvert Cliffs Nuclear Plant
Baltimore Gas & Electric**

Lusby, MD
Joe Richards 410-495-6575
January 2000

Bluegrass used robotic hammers to demolish the Butler Building floor. The areas included three slabs: one 20' x 40' x 2' and two 20' x 7' x 1'.

1999**Sandia National Laboratories
Albuquerque, NM**

Michael F. Hessheimer

Bluegrass provided an engineering study and estimate for the dismantlement of the PCCV model located at the Containment Technology Test Facility, Sandia National Laboratories.

**Georgia Tech Reactor D&D
IT/OHM Corp.**

Atlanta, GA
Gede Kilanauskas

Bluegrass core drilled in support of the Georgia Tech Decommissioning Project.

**D.C. Cook Nuclear Plant Unit I
Bechtel Power Corporation**

Bridgman, MI
Bruce McKenzie

Bluegrass provided around-the-clock diamond wire cutting in support of SGRP. The entire 3' thick roof sections, over four steam generators and enclosure walls, were diamond wire cut into eighteen 15-ton sections and removed.

**Connecticut Yankee
Haddam Neck Nuclear Plant**

Bechtel Power Corporation
East Hampton, CT
Mike Chwatek

Bluegrass diamond wire cut an opening in the containment wall for personnel access in support of the decommissioning project.

**Peco Nuclear
Limerick Generating Station**

Raytheon Engineers & Constructors
Sanatoga, PA
Richard Miseberger

Bluegrass diamond wire cut one 6' x 4' x 1' pump pad and curb. The pad was wire cut into six sections, and the curb into two sections.

**Princeton Plasma Physics Lab
Florida International University**

Keith Rule (PPPL); Sue Madaris(FIU)

Bluegrass demonstrated diamond wire cutting technology on a stainless steel mock-up of the Tokamak Fusion Test Reactor. Bluegrass provided design and engineering analysis of proprietary new equipment using liquid-nitrogen as wire coolant on one of the test cuts.

Saxton Nuclear Experimental Corporation Facility

Saxton, PA
Lou Shamenek

Bluegrass provided concrete demolition services, including diamond wire sawing and core drilling, in support of the Saxton facility decommissioning.

**Oak Ridge Y-12 Facility
Entech, Inc.**

Oak Ridge, TN
Tim Long

Bluegrass diamond wire cut a slab of 200 linear feet, 18" thick concrete.

**Trojan Nuclear Power Plant
Portland General Electric**

Portland, OR
Paul Applegate

Bluegrass provided consulting services for site personnel concerning contaminated concrete/steel removal, which included a review of planned methodology for removal, sequence of activities, equipment to be used, waste processing flow path, dust and debris control, cost estimate unit rates for concrete removal; and, a summary report with Bluegrass' recommendations.

**Connecticut Yankee
Haddam Neck Nuclear Plant
Bechtel Power Corporation**

East Hampton, CT
Mike Chwatek

Bluegrass diamond wire cut into four sections, an 8' x 8' opening in the rx containment wall for personnel access.

Nycomed Amersham

Arlington Heights, IL
Mark Doruff

Bluegrass performed core drilling for sampling of hot cells for proposed decommissioning.

**South Texas Project SGRP, Unit 1
Bechtel Energy Corp.**

Wadsworth, TX
R.L. Beck, Project Manager, Bechtel Energy

Bluegrass core drilled and diamond wire cut a portion of the bio-shield wall to provide clearance for the SGRP.

**Farley Nuclear Plant
Southern Nuclear Operating Company**

Ashford, AL
Mike Kuykendall

Bluegrass diamond wire cut concrete foundations in the turbine building for and air compressor change out.

**Arkansas Nuclear One Plant, Unit I
Energy Operations, Inc.**

Russellville, AK
John Meeker

Two 120-ton condensers were split in half so that four 60-ton sections could be removed. The diamond wire cut through 27,000 inconel tubes, steel pipes, and steel baffle plates.

1998**South Texas Electrical Generating Station
STP Nuclear Operating Company**

Wadsworth, TX
Lynn West

Bluegrass core drilled small diameter holes of exact dimension through heavily reinforced shield walls for installation of new jib cranes.

**Braidwood Nuclear Station Unit No. 1
Bechtel Power Corporation**

Braidwood, IL
William Douglas

Using robotic demolition hammers on elevated platforms, Bluegrass made a 28' x 28' concrete opening in the containment wall without damaging the steel containment liner. The perimeter of the opening was chipped back approximately 18"

which exposed without damaging the existing rebar.

**Humboldt Bay
Pacific Gas & Electric**

Eureka, CA
David Bidwell

Bluegrass diamond wire cut a 250' tall concrete ventilation stack located directly adjacent to the spent fuel storage area. Bluegrass cut the stack into ring sections of specified length, while working from a moveable, elevated platform. All cooling water was contained and recycled during the cutting process due to contamination potential.

**Hanford Nuclear Reservation
Bechtel Power Corporation**

Richland, WA
Michael Hughes

Bluegrass diamond wire cut through reinforced concrete canal walls and floor in order to isolate the transfer pit from the remainder of the fuel storage basin. Bluegrass cut the upper portion off each transfer pit. There were two vertical cuts, and one horizontal cut per upper transfer pit section.

**Vogtle Electrical Generating Plant
Georgia Power**

Waynesboro, GA
Bobby Mullinax

Bluegrass used robotic hammers to remove concrete protective covers for diesel generator exhaust.

Sandia National Laboratories

Albuquerque, NM
Paul Schlavin, Construction Management Engineer

Hot cell facility modifications: to convert the hot cell facility from military experimentation to production of medical isotopes, many new manipulator arm access holes, light holes and viewing ports were required. Bluegrass diamond wire cut 12 new openings in 3 ½' to 5 ½' thick walls as well as drilling numerous 8, 10, and 12 inch diameter holes in the cell walls.

**Hanford Nuclear Reservation
Bechtel Power Corporation**

Richland, WA
Michael Hughes and Marv Hyman

Bluegrass performed a proprietary technology demonstration of diamond wire cutting concrete walls, 2-3 feet thick, 12 feet high, using liquid nitrogen as wire coolant and water as a back-up.

**Big Rock Nuclear Plant
Consumers Energy**

Charlevoix, MI
Mr. Les Bradshaw

Working within the containment structure of this recently shutdown nuclear plant, Bluegrass diamond wire cut a 5' thick by 18' diameter reactor shield plug into three sections. The shield plug had a 2" lead shielding embedded in the concrete, and ½" steel plate surrounding the sides. Its contamination profile was lead, PCB paint, and radiological contamination. By placing the diamond wire saw in a tent on top of the reactor shield plug, all cutting operations were conducted without use of respirators. Respirators were used when entering the tent to adjust the cut lines.

**Surry Nuclear Station
Virginia Power**

Surry, VI
Will Beckerdite

Bluegrass diamond wire cut the reactor shield plug, which was 3' thick and 17' in diameter.

**Byron Nuclear Station Unit No. 1
Bechtel Power Corporation**

Byron, IL

To remove and replace the steam generators, an opening of 28' x 28' was required in the containment wall. Bluegrass, using robotic demolition hammers, broke the concrete opening without damage to the steel containment liner.

Three mats of #18 rebar were also carefully removed in this operation.

1997**South Texas Electrical Generating Station
Houston Light & Power**

Wadsworth, TX
Lynn West
February and June

Bluegrass core drilled small diameter holes of exact dimension through heavily reinforced shield walls for installation of new jib crane.

**Vogtle Electrical Generating Plant
Georgia Power**

Waynesboro, GA
Fred Warren and Dave Moncus

Bluegrass used robotic hammers to remove concrete slabs in the auxiliary boiler building.

**Trojan Nuclear Power Plant
Portland General Electric**

Portland, OR
Mr. Paul Applegate
July 1997 and May 1995

Bluegrass diamond wire cut a containment wall opening of 28' x 28' x 3' into 12 sections, approximately 15-ton each to support the removal of four steam generators.

Bluegrass diamond wire cut bio-shield walls into eighteen 6-ton sections, 2 1/2" thick, and the pressurizer shield walls of 10' x 50' (high) x 2' into seven 11-ton sections. One hundred percent of the water was controlled and recycled during the cutting.

**Fermi Nuclear Power Plant
Detroit Edison**

Detroit, MI
Mr. Jim Drotar

Bluegrass, working within the auxiliary building, core drilled and diamond wire cut a 12' x 10' opening, with secondary segmentation into 8 blocks, through a 2 1/2' thick wall.

1996**Arkansas Nuclear Plant, Unit I
Entergy Operations, Inc.**

Russellville, AK
Jack Bruni

Bluegrass diamond wire cut maintenance instrument air compressor foundations.

**R.E. Ginna Nuclear Plant
Rochester Gas & Electric**

Ontario, NY
Bruce McKenzie

The steam generators were to be removed and replaced through the containment dome. Bluegrass, using four robotic hammers around-the-clock, broke two large openings through the 3' thick concrete with 3 layers of #18 rebar on 12" centers, while maintaining the integrity of the containment liner plate.

1995**North Anna Unit II
Virginia Power/Bechtel Power Corporation**

Mineral, VI
Mike Rought, Sub Contract Representative
Martin Gettler, Project Manager
Brian Reilly

Steam Generator Replacement Project.

1994**Argonne National Laboratories
Alaron Corporation**

Argonne, IL
Rob Trimble

Experimental boiling water reactor. Decontamination and decommissioning project support services. Bluegrass used robotic hammers to remove concrete from the bottom shield plug as well as 4" of activated concrete from the reactor cavity's concrete wall.

**West Valley Demonstration Project
Bell Power Corporation**

Rochester, NY
Lloyd Donovan
Doug Tinklepaugh

Bluegrass diamond wire cut existing labyrinth into 20 individual sections, not to exceed 8000lbs.

1993**Maine Yankee Nuclear Station**

Cianbro Wiscasset, ME
John Hill

Bluegrass diamond wire cut compressor foundations for their removal.

1990**Princeton Particle Accelerator, Princeton University****Ebasco Services, Incorporated**

Plainsboro, NJ
Dr. Bill Snedaker

Decontamination and decommissioning project that required the removal of 2700 cubic feet of radioactive reinforced concrete, using diamond wire cutting, expansive grout, and robotic hammers. Nine blocks were diamond wire cut from the roof. The blocks were then split with expansive grout to separate the radioactive layer for removal. The walls were removed in 6' x 4' x 6" and 6' x 4' x 12" sections. The columns required 6" - 18" removal depth. The sections were cracked with expansive grout and then pried apart with a robotic hammer.