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Navajo Tribal Utility Authority
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Final Report **Navajo Electrification** **Demonstration Project**

FY2004
Cooperative Agreement
DE-FG02-07CH11240

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A consortium consisting of the following partners has assisted with the implementation of the Navajo Electrification Project:

PARTICIPATING ORGANIZATIONS:

- Navajo Tribal Utility Authority Staff
- Navajo Tribal Utility Authority Management Team
- Navajo Tribal Utility Authority Management Board
- Navajo Tribal Utility Authority – District and Sub-Offices
- Navajo Nation Government Offices
 - Navajo Nation Office of President /Vice President
 - Navajo Nation Council
 - Navajo Nation Land Department
 - Fish and Wildlife
 - Historical Preservation
 - Environmental Protection Service
- Bureau Of Indian Affairs
 - BIA Real Estates Service
 - BIA Environmental Office
- Jemez Electric Services
- Continental Divide Electric Coop
- City Of Gallup -Electric
- City Of Farmington-Electric

CONTRIBUTORS:

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- SGS Witter- Legal Survey and Field inspection

GOVERNMENT PARTNER:

- U.S. Department of Energy- Chicago Operations Office
- U.S. Department of Energy- Washington Headquarter Office
- U.S. Department of Energy-Sandia National Laboratory
- Senator Bingaman Office
- Senator Domenici Office-
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- Sandia National Laboratories

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- a. 2006

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1. Preface

Under the sponsorship of United States Senators, Jeff Bingaman and Pete Domenici, Congress passed Public Law 106-511, Section 602. P.L. 106-511 passed by the House on October 19, 2000 and by the Senate on October 24, 2000. The legislation authorized the *Navajo Electrification Demonstration Program* to be funded \$15,000,000 per year for five years. President Clinton signed the Bill into Law on November 13, 2000. Public Law 105-611 allows for rural electrification of Navajo People's homes that request for electric services.

Subsequently, before this funding of grant award all of the previous Navajo Electrification Demonstration Program- Electric Line Extension was funded thru the Golden Field office in Golden, Colorado from Fiscal Year 2002 to Fiscal 2004 Congress has appropriated about \$3,161,000.00 dollars for the program and funded 1065 projects that were provided grant to extend electric powers lines to homes on the Navajo Nation. During Fiscal 2004 this Program was transferred to the Office of Electricity Delivery and Energy Reliability in which the Navajo Tribal Utility Authority had to work with the Chicago Operation Office.

For FY 2004 Congress approved \$2,860,804.00 dollars for the Navajo Electrification Project. The Navajo Tribal Utility Authority (NTUA) through these new changes was assigned to work with the Chicago Operation Office, for electric line extension program. This grant award was signed on September 28, 2004. The budget period was from September 15, 2004 to September 14, 2005. Through various No Cost Grant extensions this program was closed on June 30, 2006.

The Navajo Tribal Utility Authority provided electric line extensions to three hundredth and fifty-one (351) families living throughout the Navajo Nation.

11. Executive Summary

The Navajo Nation, or *Dine Bi keyah* (Land of the People), extends into the States of Arizona, New Mexico and Utah, covering over 27,000 square miles, including all or parts of 13 counties in those states. *Dine Bi keyah* is larger than 10 of the 50 states in the United States. Much of *Dine Bi keyah* is extremely remote and isolated, with significant renewable and non-renewable natural resources, including surface and ground water, range lands, forests, irrigated farmlands, lakes, fish and wildlife, as well as substantial reserves of coal, oil and natural gas.

The families provided with line extensions live in the following states: Arizona, New Mexico, and Utah. The majority of the families served live in Arizona. New Mexico had the next largest number of customers served. A few of the families served in New Mexico live within areas served by either municipals or electric cooperatives. NTUA worked with these entities to provide electric line extensions to these families.

According to the "2000/2001 Comprehensive Economic Development Strategy" report from the Navajo Nation Division of Economic Development, 56.1 percent of Navajo people live below the poverty level with a per capita income of \$6,217, and an unemployment rate at 43.65 percent.

The Navajo Nation is challenged daily by the tasks associated with attracting businesses to a business environment that has little or no infrastructure. On a regular basis, several businesses explore the possibility of locating to the Navajo Nation before realizing the obstacles of inadequate paved roads and lack of electricity, water, telecommunication, and police and fire protection services. According to the Navajo Department of Transportation, there are approximately 9,286 miles of public roads, with 78% of those roads being dirt or graveled.

According to the 'Census 2000' report from the Navajo Nation Division of Economic Development, of the 68,744 housing units on the Navajo Nation, 15,279 homes or 31.9 percent, lack complete plumbing; 13,447 homes or 28.1 percent, lack a complete kitchen facility; and 28,740 homes or 60.1 percent, lack telephone service.

The number of housing units that lack electrical services is roughly the difference of 33,683 *residential accounts that NTUA provides residential electric services* and the number of housing units of 68,744. The projected number of housing units not electrified is 34,061. This is according to the reported number of housing unit structures by the Division of Economic Development. The number of residential accounts is according the Navajo Tribal Utility Authority summary of consumers served.

The Navajo Nation has a way to go before a majority of all housing units have access to electricity. With the continued funding through the Navajo Electrification Demonstration Program, the Navajo People will get access to affordable electric services.

111. PROJECT MANAGEMENT

Project Manager

The Navajo Tribal Utility Authority (NTUA) assigned a Project Manager to oversee the program. The NEDP Project Manager will ensure that all provision of the program in accordance to the contract and the development of the Scope of Work, completed progress reports, and worked with the District NEDP Project leaders in execution of line extensions to clients. The designated employee ensured the program met the necessary oversights to achieve the goals and objectives of the Navajo Electrification Demonstration Program.

Planning

The Project Manager developed overall plans with input from all areas of the organization including business areas such as engineering, executive management, finance and accounting, customer service, and districts offices. Also, NTUA planners and non-NTUA partners, to insure all involved understand and commit to plans to expend the NEDP funds in the most effective and well-organized way possible.

Project Schedule

Project schedules were developed and modified as needed to expend the grant funds. A delay in completing the first phase occurred due to unanticipated business system cutover pertaining to summary of projects expenditures. This has since been resolved and the additional unspent funds were allocated to additional clients. The project schedules were used to manage the implementation of this program. The project schedule coordinated customer service, engineering activities, and construction activities, and it was used to track the progress of the program. In addition, different departments of NTUA used the schedule to manage their resources as needed to meet timelines. The Project Manager and District Team Leaders were responsible for maintaining and updating the project schedule and keeping all parties informed.

Reports

The NTUA Project Manager tracked the overall execution of the project and submitted quarterly reports to the Department of Energy. The reports were shared with NTUA executive managers, NTUA Management Board, and the Navajo Nation Government. Summary quarterly financial activity reports, which included numbers of Navajo residents provided electric service, were provided to the Department of Energy Project Officer.

The NTUA provided annual reports to the Department of Energy. The annual report included background information, project objectives, a project plan with key milestones, roles and responsibilities; project status including accomplishments, activities planned to be completed, and those that were not completed as planned; a summary of activities planned for the remaining project period and any issues or barriers to completion of the project.

1V. CUSTOMER SERVICE

Identify Customer Households

The grant funds allocated for electric line extensions were used to make the greatest electrification impact to Navajo Nation homes; to that end, clients living closest to existing power lines were selected for line extensions.

The selection criteria were as follows: *The customer must live within one mile of an existing power line; the house must be wired for electrical services and have a signed certification of house wiring; the customer must complete all NTUA service request forms, the house must be lived in as primary residence; the customer must have a Navajo Nation Home Site Lease, and must have completed or be in final process of right of way for utilities. Customers living further away than one mile from a power line were considered if at least three clients could be served.*

Subject to Congress appropriating funds in subsequent years for this project, NTUA will build and upgrade power lines and power systems to provide electric services to Navajo Nation households.

EVALUATION OF CUSTOMER HOMES

The identified customers' houses were checked for determination of house wiring, service entrance for electric service, and distance from existing electric power lines. Site-specific information was gathered to complete engineering design for construction activities and coordination. Additionally, the houses were required to have certification of housing wiring by a state-licensed electrician. The certification is necessary to mitigate liability of homeowner's residence wiring.

Non-NTUA Participants

Each household chosen for this portion of the project met all the requirements of the Navajo Nation and Federal Laws and Regulations regarding environment and cultural resources. NTUA 's Project Manager will work with the Non-NTUA Utility Manager to work on Grant of Easements/Service Line Agreement for all electric power line extension projects. The Non-NTUA Utility Manager will address all requirements concerning environmental or cultural resources before project is approved.

Customer Service

NTUA worked closely with the District Customer Services personnel, helping to establish a solid rapport between NTUA and its customers. The District Offices staffs identify avenues to effectively communicate to the public, including relaying information about requirements detailed under this electrification program, which included producing educational material for customers in video, audio or printed form. The offices prepared information packets and maintained a record of any media-related story regarding NEDP.

Customer Documentation

In addition to acquiring customer data for this portion of the project, NTUA continued gathering customer data and identifying households, which are still not served with electrical power. NTUA worked with and queried with Navajo Nation Chapters. Chapters are local Navajo Nation government offices and are located throughout the Navajo Reservation. Navajo Nation Division Offices under the Navajo Nation Government are also good sources of information.

V. ENGINEERING

NTUA ensured that all pertinent engineering design data and engineering documentation were developed to meet National Electric Safety Code on power lines, as well as the National Electric Code as it applies to residential service entrance. NTUA follows standards set by the Department of Agricultural Rural Utility Services for electric power line construction.

Engineering Documentation

The following specific engineering designs are archived for each of the electric power line extension to customers' houses: Staking Sheets, Line Extension Designs, Service Entrance Inspection, Bill of Materials, Field Data, and Legal Surveys, if it was needed; Grant of Easement for line extensions, Cultural of Environmental Clearances, and Environmental Assessment, if it were required.

Engineering Analyses

Electrical Engineers performed line load analyses on the impact of additional new customer loads on the NTUA electrical distribution system. All the projects for line extensions impact the existing electric power systems were minimal.

In future funding years, however, this will not be the case. As more customers are connected to the electric power line grid, the capacity of the power lines may well be impacted and some of the appropriations may be used to upgrade capacity as well as convert electric power lines from single-phase electric lines to three phase electric lines.

Service Line Extension

The Engineering Technicians completed field surveys of the customer and prepared a design of the power line extension. The Engineer plotted proposed power lines routes on quad paper or directly used GPS (Global Position System) Geography Information System to prepare the design showing the location of the customer and line extensions.

Power Line Design

Engineering technicians field staked all pole locations in the field for both environmental clearances and construction. A Bill of Material is prepared showing the quantity of the correct assembly and part numbers. All designs are in accordance with National Electric Safety Code as well as comply with

Rural Utility Services Distribution Construction Standards. Service drops will comply with the National Electric Code.

V1. FINANCE AND ACCOUNTING

The Finance Department performs expenditures tracking and completes financial reports to DOE and requested for reimbursement of funds expended on power line projects for clients. Purchase Requisitions and Purchase Orders are used to order materials for construction and other expenditures to support the project.

Business System

NTUA SAP Business System tracked all financial expenditures to support the Navajo Electrification Demonstration Program. The overall budget was set up in SAP so that each of the district offices was allocated a budget to expend for customer connections in operating areas. The district offices were held accountable for their budgets and the Project Manager monitored the expenditures. A monthly financial report was generated to review the expenditures to ensure progress was made and no noncompliant expenditures were made. Upon review, abnormal situations were brought to the attention of NTUA Executive Management. The SAP business system provided detailed financial information to track the project and provided an audit trail for post assessment of expenditures.

The NEDP Projects were set up in SAP to link to one Project identification number identified as NEDP through WBS elements and settlement rules.

Service Order Numbers

Each District NEDP Project Leader managed their service order numbers for their respective district offices. The service order numbers linked to the project identification numbers of each specific WBS elements pertaining to a major task, such as preliminary survey and engineering design, utility right of way acquisition, meter installation, transformer installation, construction, construction as-built, and engineering inspection. The business computer system using WBS elements summarized the cost for each facet of projects.

Material Invoices

The NTUA Central Warehouse purchased all materials and supplies needed for the power line extension projects. The central warehouse provided materials and supplies to other district warehouses. The NTUA Accounting Department paid the suppliers' invoices. Enough materials were available to complete line extensions for clients. No problems were encountered because of unavailability of materials and supplies.

Funds

NTUA will procure all materials, contracts, lease equipments and paid for labor costs and later requested for funds reimbursement to the United States Department of Energy, as needed. No advance funds were requested for the duration of the project.

Payment

Construction material costs were paid by NTUA upon delivery of the materials and later reimbursement for the expenditures was processed. NTUA did not have any outstanding invoices to pay related to NEDP projects.

V11. MATERIAL MANAGEMENT

As part of its operations, NTUA manages its construction materials and supplies to the best of its ability. In regards to NEDP projects, NTUA used the same process to account for materials and supplies expended on power line extensions. Materials management by NTUA includes ensuring inventory, issuing materials, and storing materials. The NTUA warehouses handle all materials for construction of power lines.

Materials

The Warehouse Supervisor is responsible for forecasting and ordering the materials needed for the Navajo Electrification Project. Engineering reference drawings included picking list of materials used on individual projects. Accounting Department used the list to transfer plant to assets and provide final cost summaries for each power line extensions. The warehouse personnel order the materials by issuing a purchase requisition and purchase order.

Inventory

NTUA provides material inventory control in its normal business operations. Material issued for line extensions was checked for correctness. The construction as built has all the items for a particular line extension. The NTUA business system generates reports showing materials associated with order numbers.

Material issue

The warehouse personnel issued materials to construction personnel for line extensions to houses for electrification. Prior to issuance of materials, warehouse personnel verified quantities and items ordered for the power line extensions. Upon material verification, construction personnel signed out for the material and delivered to job sites.

Storage

All construction materials and supplies were stored following NTUA procedures and processes. The process ensures construction materials are set aside and secured for expedient construction of power line extensions. No loss of material and supplies occurred during construction of projects.

V111. CONSTRUCTION

Qualified NTUA construction personnel performed the construction of the primary and secondary distribution lines to serve the customers' homes. Qualified personnel included different classified, skilled laborers and engineering personnel. These positions are the following: Journey Linemen, Journeyman

Electricians, Field Superintendents, and Engineering Technicians. Construction Foremen lead the construction of power lines. They were responsible for the coordination and planning of fieldwork and arranging for heavy equipment. The Construction Foremen responsibilities included ensuring adequate materials and appropriate equipment availability for power line extension projects. They also scheduled work crews to build power lines.

NTUA will provide any maintenance for the electric power lines constructed. In the future, if the lines are damaged due to weather, vandalism, or other mishaps, NTUA will repair and resume electric services to consumers. NTUA will provide the operation and maintenance of the line constructed. NTUA will also properly maintain and operate the power lines in accordance with acceptable industry practices. The construction of a distribution line consists of the following tasks:

Power line construction is routine in the tasks involved. The repetitive tasks include pole staking to ensure proper alignment of poles relative to surveyed points for pole locales. Engineering Technicians did the pole staking for construction personnel. The pole staking was performed ahead of the crew.

Primary pole structures were installed according to the construction drawings and specifications provided by engineering, and deviations were reported and approved by engineering. These changes were then incorporated into the construction as built. Each of the power line projects now has a construction record.

If power line construction include a secondary pole for lower voltage, which is at customer utilization levels the installation was installed according to the construction drawings and specifications provided by Engineering Department. Proposed deviations by construction personnel were discussed and approved or disapproved by Engineering personnel. Secondary meter loops were installed according to the NTUA specification as noted on its engineering drawings and specifications provided by the Engineering Department, and any deviations reported and approved by Engineering.

Under FY2002 and FY2003 funding, NTUA did not do house wiring for houses. In future years, this scope may be necessary for some of the clients that desire electrical service to their homes, and will be installed according to engineering drawings and specifications provided by Engineering Department. The house wiring shall adhere to the latest Navajo Nation, State, Federal, and National Electrical Codes. Any deviations will be reported and approved by Engineering.

While the work is in progress, it is the responsibility of the Construction Foremen to ensure the work is being conducted with minimal deviations. Upon completion and closeout, a professional engineer will inspect the project. A Professional Licensed Engineer inspected a number of orders; to ensure construction practices of NTUA met the National Electric Safety Code.

Equipment needed was made available and scheduled for construction crews in advance of construction. If they did not have equipment available, NTUA rented digger derricks. NTUA allows only qualified equipment operators to operate equipment. Equipment Operators must be safety oriented in carrying out their duties. The Construction Foremen must ensure all personnel adhere to

safety standards. A tailgate safety session was conducted prior to each day of work.

The Construction Foremen planned and scheduled work to be done well and lead their crews well in execution of the construction activities. They scheduled and arranged for the required equipment for construction.

A final activity done under the construction of electric power lines extensions is the project close out. All the projects were closed in the business system so that additional charges would cease. The closed out orders then went to Accounting Department for transferring assets to electric plant. The individual orders have detailed financial records that can be accessed for review in the NTUA business systems. The engineering documents are available for review as well.

The map shown below shows the boundary of the Navajo Nation. Electric line extension projects were made in these areas.

Map of the Navajo Nation

Navajo Electrification Demonstration Program DE-FG02-04CH11240

Overall Project Analysis

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7/6/2007

		Arizona	New Mexico	Utah	Total
1	Chinle	63	0	0	63
2	Dilcon	66	0	0	66
3	Shiprock	20	29	0	49
4	Kayenta	50	0	5	55
5	Fort Defiance	31	37	0	68
6	Crownpoint	0	21	0	21
7	Tuba City	29	0	0	29
	Total	259	87	5	351

Allocation by District Offices and States

Allocation by States-Percentage

	Name	District	Chapter	State	AZ	NM	UT
1	Winifred Wagner	Chinle	Tsaile	AZ	1		
2	Lenno King	Chinle	Pinon	AZ	1		
3	James Cisco	Chinle	Blue Gap	AZ	1		
4	Danny Watchman	Chinle	Chinle	AZ	1		
5	Gene Clark	Chinle	Chinle	AZ	1		
6	Elaine Shorty	Chinle	Chinle	AZ	1		
7	Melissa Begay	Chinle	Cottonwood	AZ	1		
8	Joe James	Chinle	Ganado	AZ	1		
9	Albert Woody	Chinle	Ganado	AZ	1		
10	Curtis Nez	Chinle	Lukachukai	AZ	1		
11	Patsy Betoney	Chinle	Lukachukai	AZ	1		
12	Sandra Deswood	Chinle	Lukachukai	AZ	1		
13	Tina J. Begay	Chinle	Lukachukai	AZ	1		
14	Terrylene Deschine	Chinle	Manyfarms	AZ	1		
15	Marie Wilson	Chinle	Nazlini	AZ	1		
16	Sam Gorman	Chinle	Nazlini	AZ	1		
17	Dorothy Hosteen	Chinle	Pinon	AZ	1		
18	Alfonzo Begay	Chinle	Rough Rock	AZ	1		
19	Laverne McCurley	Chinle	Rough Rock	AZ	1		
20	Tom Mailboy	Chinle	Rough Rock	AZ	1		
21	Lee M. Begay	Chinle	Steamboat	AZ	1		
22	Coria Brown	Chinle	Steamboat	AZ	1		
23	Bernice Thomas	Chinle	Steamboat	AZ	1		
24	Carleta Yazzie	Chinle	Tsaile	AZ	1		
25	Alice Bahe	Chinle	Rock Point	AZ	1		
26	Arlene McCabe	Chinle	Kinlichee	AZ	1		
27	Elroy Begody	Chinle	Kinlichee	AZ	1		
28	Lily McCabe	Chinle	Kinlichee	AZ	1		
29	Phillip Chischilly	Chinle	Many Farms	AZ	1		
30	Rose Gorman	Chinle	Many Farms	AZ	1		
31	Lenora Thompson	Chinle	Ganado	AZ	1		
32	Della Tanezani	Chinle	Chinle	AZ	1		
33	Harvey Tewanema	Chinle	Jeddito	AZ	1		
34	Henry T. Begay	Chinle	Steamboat	AZ	1		
35	Linda Ramone	Chinle	Rock Point	AZ	1		
36	Gary Begay	Chinle	Round Rock	AZ	1		
37	Jimmy Tom	Chinle	Blue Gap	AZ	1		
38	Fred N. Smith	Chinle	Chinle	AZ	1		
39	Gordon Eric Travis	Chinle	Chinle	AZ	1		
40	Deswood Gorman	Chinle	Chinle	AZ	1		
41	Eunice Y Kee	Chinle	Kinlichee	AZ	1		
42	Charlene Kaamasee	Chinle	Kinlichee	AZ	1		
43	Darlene Whitegoat	Chinle	Kinlichee	AZ	1		
44	William W. Davis	Chinle	Kinlichee	AZ	1		
45	Herman /Darla George	Chinle	Kinlichee	AZ	1		
46	Jolene K Yazzie	Chinle	Kinlichee	AZ	1		
47	Bernice/ Jonas Albert	Chinle	Kinlichee	AZ	1		
48	Caroline K. Nez	Chinle	BlackMesa /Kitsillie	AZ	1		
49	Irene K. Joe	Chinle	BlackMesa /Kitsillie	AZ	1		
50	Allisa Reid	Chinle	Ganado	AZ	1		
51	Alvita Reid	Chinle	Ganado	AZ	1		
52	Allica M. Reid	Chinle	Ganado	AZ	1		
53	Wayne Cadman	Chinle	Chinle	AZ	1		
54	Larry Begay (voided)	Chinle	Rock Point	AZ	1		
55	Evelyn Slim	Chinle	Ganado	AZ	1		
56	Christine Whitegoat	Chinle	Kinlichee	AZ	1		
57	Marietta Yazzie	Chinle	Kinlichee	AZ	1		
58	Elizabeth Begay	Chinle	Nazlini	AZ	1		
59	Anngelina M. Lee	Chinle	Cottonwood	AZ	1		
60	Shirley Yazzie	Chinle	Blue Gap	AZ	1		
61	Cindy Harrison	Chinle	BlackMesa	AZ	1		
62	Salina Kenneth Tso	Chinle		AZ	1		
63	Jason Yazzie	Chinle		AZ	1		
	CHINLE						
	TOTAL PROJECTS				63	0	0

	Name	District	Chapter	State	AZ	NM	UT
1	Begay, Paul/Melvin, Delphina	Dilcon	Jeddito, Az	AZ	1		
2	Dickson, Ross-	Dilcon	Dilcon	AZ	1		
3	Begay, Jimmy V.-	Dilcon	Whitecone	AZ	1		
4	Nez, Arnold	Dilcon	L. Greasewood	AZ	1		
5	Shields, Florence	Dilcon	Dilcon	AZ	1		
6	Keyonnie, Daryl	Dilcon	L. Greasewood	AZ	1		
7	Yazzie, Clara J.	Dilcon	L. Greasewood	AZ	1		
8	Begay, K. Paulette	Dilcon	Jeddito	AZ	1		
9	James, Delford	Dilcon	Cornfield	AZ	1		
10	Slim, Annie	Dilcon	Teesto	AZ	1		
11	Yazzie, Irene C.	Dilcon	Ganado South	AZ	1		
12	Dabbs, Louise	Dilcon	Dilcon	AZ	1		
13	Paddock, Waldo	Dilcon	Dilcon	AZ	1		
14	Peterson, John	Dilcon	Dilcon	AZ	1		
15	Brown, Kee Jr.-	Dilcon	Dilcon	AZ	1		
16	Brown, Seya	Dilcon	Dilcon	AZ	1		
17	Jensen, Raymond	Dilcon	Teesto	AZ	1		
18	Nez, Peter	Dilcon	Teesto	AZ	1		
19	Roanhorse, Mary Ann	Dilcon	Klagetoh	AZ	1		
20	Begay, Madeline	Dilcon	Dilcon	AZ	1		
21	Evans, Sandy	Dilcon	Indian Well	AZ	1		
22	Hayes, Doris	Dilcon	Indian Well	AZ	1		
23	Begay, Beverly	Dilcon	Dilcon	AZ	1		
24	Tom, Jack/Mary	Dilcon	Dilcon	AZ	1		
25	Yazzie, Perry	Dilcon	Wide Ruins	AZ	1		
26	Navajo, Albert	Dilcon	Wide Ruins	AZ	1		
27	Navajo, Calvin	Dilcon	Wide Ruins	AZ	1		
28	Jackson, Paul	Dilcon	Indian Well	AZ	1		
29	Mitchell, Kee/Shelby	Dilcon	Tolani Lake	AZ	1		
30	Curley, Mary	Dilcon	Klagetoh	AZ	1		
31	Benward, Clifford	Dilcon	Klagetoh	AZ	1		
32	Bichitty, Sylvia	Dilcon	Dilcon	AZ	1		
33	Cody, Chris	Dilcon	Indian Well	AZ	1		
34	Joe, Raylene	Dilcon	Dilcon	AZ	1		
35	Nez, Fredrick	Dilcon	Dilcon	AZ	1		
36	Natoni, Kee	Dilcon	Tolani Lake	AZ	1		
37	Begay, Pauline	Dilcon	Cornfield	AZ	1		
38	Ram, Melva	Dilcon	Cornfield	AZ	1		
39	Begay, Faye J.	Dilcon	L. Greasewood	AZ	1		
40	Begaye, Larry/ Priscilla	Dilcon	L. Greasewood	AZ	1		
41	Lyman, Katie	Dilcon	L. Greasewood	AZ	1		
42	Tsosie, Mary	Dilcon	L. Greasewood	AZ	1		
43	Singer, Emlyn Tsosie	Dilcon	Dilcon	AZ	1		
44	Jackson, Joanne	Dilcon	Dilcon	AZ	1		
45	Jackson, Roanna	Dilcon	Dilcon	AZ	1		
46	Scott, Marlin/Maggie	Dilcon	Teesto	AZ	1		
47	Yellowhair, Patrica	Dilcon	Whitecone	AZ	1		
48	Bahe, Nelson	Dilcon	Jeddito	AZ	1		
49	Yessilth, Anslern	Dilcon	Jeddito	AZ	1		
50	Yazzie, Elsie	Dilcon	Jeddito	AZ	1		
51	Burns, Martha	Dilcon	Wide Ruins	AZ	1		
52	Yazzie, Minnie	Dilcon	Indian Wells	AZ	1		
53	Martinez, Roberta	Dilcon	Birdsprings	AZ	1		
54	Hale, Clarissa	Dilcon	Dilcon	AZ	1		
55	Mary R. Begay	Dilcon	Dilcon	AZ	1		
56	Lorraine Cepi	Dilcon	Dilcon	AZ	1		
57	Jerome Bitsilly	Dilcon	Dilcon	AZ	1		
58	Dick Yazzie	Dilcon	Birdspring	AZ	1		
59	Marie Thompson	Dilcon	Teesto	AZ	1		
60	Mattie Haskie	Dilcon	L. Greasewood	AZ	1		
61	Norman Haskie	Dilcon	L. Greasewood	AZ	1		
62	Shorty Thomasina	Dilcon	L. Greasewood	AZ	1		
63	Joe Marwin	Dilcon	Wide Ruins	AZ	1		
64	Donald Begay	Dilcon	Jeddito	AZ	1		
65	Lula Begay	Dilcon	Jeddito	AZ	1		
66	Johnny Begay/Cynthia	Dilcon	Teesto	AZ	1		
	DILCON						
	TOTAL PROJECTS				66	0	0

	Name	District	Chapter	State	AZ	NM	UT
1	Alfred John	Shiprock	Sweetwater	Az	1		
2	Marita Yazzie	Shiprock	Shiprock East	NM		1	
3	Herman Gonzales	Shiprock	Sweetwater	AZ	1		
4	Melissa Williams	Shiprock	Sweetwater	AZ	1		
5	Eddie Benally	Shiprock	Sweetwater	Az	1		
6	Keith Bigman	Shiprock	Newcomb	AZ	1		
7	Davis Manuelito	Shiprock	Newcomb	NM		1	
8	Marzette Haskan	Shiprock	Sweetwater	Az	1		
9	Lorena T Lewis	Shiprock	Toadlena	NM		1	
10	Angelina Martin	Shiprock	Newcomb	NM		1	
11	Karen M. -Bish Archer	Shiprock	Two Grey Hills	NM		1	
12	Hubert Nakai	Shiprock	Red Mesa	Az	1		
13	Charlene Slim	Shiprock	Teesnospos	Az	1		
14	Alvin Allen	Shiprock	Newcomb	NM		1	
15	Albert Allen	Shiprock	Newcomb	NM		1	
16	Hilda Teller	Shiprock	Newcomb	NM		1	
17	Rose Ann Willie	Shiprock	Nenahnezad	NM		1	
18	Mary Ann Joe	Shiprock	Red Mesa	Az	1		
19	Sammy Warren	Shiprock	Red Mesa	AZ	1		
20	Kelvin Thomas Silver	Shiprock	Cove	Az	1		
21	Wesley Begay	Shiprock	Two Grey Hills	NM		1	
22	Leonard F Begay	Shiprock	Red Mesa	Az	1		
23	Jay T Brown	Shiprock	Lower Fruitland	NM		1	
24	Alfred Brown	Shiprock	Two Grey Hills	NM		1	
25	Betty D Begay	Shiprock	Nenahnezad	NM		1	
26	Stanley Taylor	Shiprock	Newcomb	NM		1	
27	Aaron Happy	Shiprock	Littlewater	NM		1	
28	Lorraine Shoats	Shiprock	Shiprock Farm A	NM		1	
29	William & Sally Yazzie	Shiprock	Teesnospos	NM		1	
30	Benita & Blackhorse Benally	Shiprock	Sweetwater	Az	1		
31	Herbert Ben Sr.	Shiprock	Red Valley	Az	1		
32	Alice Benally	Shiprock	Nenahnezad-South	NM		1	
33	Jean Bowen	Shiprock	Nenahnezad-South	NM		1	
34	Mary Louise Benally	Shiprock	Nenahnezad-South	NM		1	
35	Miranda Allen	Shiprock	Nenahnezad-South	NM		1	
36	Shirley Begay	Shiprock	Nenahnezad-South	NM		1	
37	Shirley Dodge	Shiprock	Nenahnezad-South	NM		1	
38	Steven & Lucy Benally	Shiprock	Sweetwater	AZ	1		
39	Sanderson Billie	Shiprock	Shiprock	NM		1	
40	Sandra R. Charles	Shiprock	Nenahnezad	AZ		1	
41	Raymond & Marietta George	Shiprock	Red Valley	AZ	1		
42	Jennifer King	Shiprock	Red Valley	AZ	1		
43	Leonard J. King	Shiprock	Red Valley	AZ	1		
44	Jimmie Lowe	Shiprock	Red Mesa	AZ	1		
45	Merlin Yazzie	Shiprock	Sweetwater	AZ	1		
46	Don Y.Foster	Shiprock	Sheepspring	AZ		1	
47	Roselane Paul	Shiprock	Shiprock	NM		1	
48	Liza Chee	Shiprock	Sheepspring	NM		1	
49	Helen Harrison	Shiprock	Cudei	NM		1	
SHIPROCK DISTRICT TOTAL PROJECTS				20	29	0	

	Name	District	Chapter	State	AZ	NM	UT
1	Bessie Shirley	Fort Defiance	Sawmill	AZ		1	
2	Frank Taliman	Fort Defiance	Houck,	AZ		1	
3	Marvin Segay	Fort Defiance	White Clay	AZ		1	
4	Nellie Begay	Fort Defiance	Sawmill	AZ		1	
5	Daniel Barney	Fort Defiance	Twin Lakes	NM			1
6	Carmelita Willetto	Fort Defiance	Mexican Spring	NM			1
7	Rachel Wyn	Fort Defiance	Mexican Spring	NM			1
8	Leona Lee	Fort Defiance	St. Michaels	AZ		1	
9	Tonilisa Nezz	Fort Defiance	St. Michaels	AZ		1	
10	Judith Mose	Fort Defiance	Crystal	NM			1
11	Ernest Clark Jr.	Fort Defiance	Coyote Canyon	NM			1
12	Valentina Begay	Fort Defiance	Twin Lakes	NM			1
13	Elsie Watson	Fort Defiance	Tohatchi	NM			1
14	Sandra Murphy	Fort Defiance	Houck	AZ		1	
15	Della Mae Yazzie	Fort Defiance	Ft. Defiance	AZ		1	
16	Andrew & Geraldine Nez	Fort Defiance	Rabbit Brush	NM			1
17	Treva Silversmith	Fort Defiance	Mexican Spring	NM			1
18	Mary Billman	Fort Defiance	Sawmill	AZ		1	
19	Hoskie Wood	Fort Defiance	Sawmill	AZ		1	
20	Gerald Kaufman	Fort Defiance	Twin Lakes	NM			1
21	Monica Tsosie	Fort Defiance	Sawmill	AZ		1	
22	McRenoisen & Teresa Sagina	Fort Defiance	St. Michaels	AZ		1	
23	Wanda Sagina	Fort Defiance	St. Michaels	AZ		1	
24	Mabel Benally	Fort Defiance	Hunters Point	AZ		1	
25	Cheryl Benally	Fort Defiance	Hunters Point	AZ		1	
26	Sarah Dickens	Fort Defiance	Oak Springs	AZ		1	
27	Marie Kee	Fort Defiance	Oak Springs	AZ		1	
28	Phyllis Kanuho	Fort Defiance	Hunters Point	AZ		1	
29	Leo Valencia	Fort Defiance	Summit	AZ		1	
30	Max Smith	Fort Defiance	Summit	AZ		1	
31	Curran Hannon	Fort Defiance	Summit	AZ		1	
32	Carolyn Sangster	Fort Defiance	Summit	AZ		1	
33	Gary Price	Fort Defiance	Summit	NM			1
34	Gerald Hannon	Fort Defiance	Summit	AZ		1	
35	Albert Damon Jr.	Fort Defiance	Sawmill	NM			1
36	Gary Davis	Fort Defiance	Sawmill	NM			1
37	Regina J. Begay	Fort Defiance	Naschitti	NM			1
38	Louise Watchman	Fort Defiance	Ft. Defiance	AZ		1	
39	Henry Deal	Fort Defiance	Crystal	NM			1
40	Hope Wilson	Fort Defiance	Crystal	NM			1
41	Barbara Jean Yazzie	Fort Defiance	Naschitti	NM			1
42	Arviso Etsitty Sr.	Fort Defiance	Rabbit Brush	A		1	
43	Linda Cleveland	Fort Defiance	Coalmine	NM			1
44	Bruce Morgan	Fort Defiance	Coyote Canyon	NM			1
45	Loy & Lucinda Yazzie	Fort Defiance	Navajo	NM			1
46	Josephine Begay	Fort Defiance	Houck	AZ		1	
47	Sherry Tom	Fort Defiance	Tohatchi	NM			1
48	Alice Cheveland	Fort Defiance	Fort Defiance	NM			1
49	Alberta Wauneka	Fort Defiance	Fort Defiance	NM			1
50	Ernie Blackgoat	Fort Defiance	Fort Defiance	NM			1
51	James Lee	Fort Defiance	Fort Defiance	NM			1
52	Eddie Lee	Fort Defiance	Fort Defiance	NM			1
53	Augusta Peterson	Fort Defiance	Fort Defiance	NM			1
54	Lawrence Tahy	Fort Defiance	Fort Defiance	NM			1
55	Elsie Peterson	Fort Defiance	Fort Defiance	NM			1
56	Jack Jones	Fort Defiance	Crystal	NM			1
57	Germaine Daye	Fort Defiance	Coyote Canyon	NM			1
58	Cyntia Yazzie	Fort Defiance	Twin Lakes	NM			1
59	Cecelia Yazzie	Fort Defiance	Twin Lakes	NM			1
60	Helen Jesus	Fort Defiance	Fort Defiance	AZ		1	
61	John Yazzie	Fort Defiance	Mexican Spring	AZ		1	
62	Patricika Yazzie	Fort Defiance	Mexican Spring	AZ		1	
63	Gerald Yazzie	Fort Defiance	Twin Lakes	NM			1
64	Phillip Pinto	Fort Defiance	Houck	AZ		1	
65	Vincenta Bryant	Fort Defiance	Sawmill	AZ		1	
66	Angoe Evans	Fort Defiance	St. Michaels	AZ		1	
67	Nancy Benally	Fort Defiance	Mexican Spring	NM			1
68	Rose Begay	Fort Defiance	Mexican Spring	NM			1

FORT DEFIANCE DISTRICT			
TOTAL PROJECTS	31	37	

	Name	District	Chapter	State	AZ	NM	UT
1	Lee/Corrina Sombbrero	Tuba City	Tonalea	AZ	1		
2	Tammy Jean Slim	Tuba City	Tonalea	AZ	1		
3	Nona Fowler	Tuba City	Tonalea	AZ	1		
4	Rosemary Joe	Tuba City	Tonalea	AZ	1		
5	Betty Slim	Tuba City	Tonalea	AZ	1		
6	Fannie Slim	Tuba City	Tonalea	AZ	1		
7	Leander Slim	Tuba City	Tonalea	AZ	1		
8	Robert Tohannie	Tuba City	Tonalea	AZ	1		
9	Lee Tohannie	Tuba City	Tonalea	AZ	1		
10	Raymond Tohannie	Tuba City	Tonalea	AZ	1		
11	Ben Y. Tohannie	Tuba City	Tonalea	AZ	1		
12	Mary T. Begay	Tuba City	Tonalea	AZ	1		
13	King Fowler	Tuba City	Tonalea	AZ	1		
14	Bobby Fowler	Tuba City	Tonalea	AZ	1		
15	Patrick/Lita Chee	Tuba City	Tonalea	AZ	1		
16	Paul Zilth	Tuba City	Tonalea	AZ	1		
17	Harold/Mesilla Donald	Tuba City	Kaibeto	AZ	1		
18	Leslie/Susie Tso	Tuba City	Hardrock	AZ	1		
19	Benny Fowler	Tuba City	Coppermine	AZ	1		
20	Genevieve Bighorse	Tuba City	Moenave	AZ	1		
21	George Esplain	Tuba City	Tonalea	AZ	1		
22	Nellie Nez	Tuba City	Tonalea	AZ	1		
23	Roy Goodman	Tuba City	Tonalea	AZ	1		
24	Donald Freeman	Tuba City	Tonalea	AZ	1		
25	Grace Sampson	Tuba City	Coppermine	AZ	1		
26	Charlie Tisi	Tuba City	Cedar Ridge	AZ	1		
27	Herbert Mann	Tuba City	Kaibeto	AZ	1		
28	Rena M. Smith	Tuba City	Cedar Ridge	AZ	1		
29	Edith Nez	Tuba City	Kaibeto	AZ	1		

TUBA CITY SUB-OFFICE			
TOTAL PROJECTS	29	0	

1	Tom James	Crownpoint	Standing Rock	NM	1
2	Jimmie Etcitty	Crownpoint	Dalton Pass	NM	1
3	Dorothy Yazzie	Crownpoint	Dalton Pass	NM	1
4	Alice Tsosie	Crownpoint	Whiterock	NM	1
5	Freddie Charles	Crownpoint	Whiterock	NM	1
6	Rodger Charles	Crownpoint	Whiterock	NM	1
7	Eleanor Coonis	Crownpoint	Whiterock	NM	1
8	Joyce Chavez	Crownpoint	Whiterock	NM	1
9	Esther Jodie	Crownpoint	Mulholland Well	NM	1
10	Marie Y. Becenti	Crownpoint	Coyote Canyon	NM	1
11	Cecilia Arviso	Crownpoint	Kerr McGee	NM	1
12	David Abeita	Crownpoint	W. Sundance	NM	1
13	Kilroy Todachenny	Crownpoint	Huerfano	NM	1
14	Tom Jim Sala	Crownpoint	Counselor	NM	1
15	Jeanette Y. Cltief	Crownpoint	Huerfano	NM	1
16	Olsen Tsosie	Crownpoint	Whitehorse Lake	NM	1
17	Lambert Bitsue	Crownpoint	Twin Lakes	NM	1
18	Willie Sam	Crownpoint	Coyote Canyon	NM	1
19	Helen Silago	Crownpoint	Dalton Pass	NM	1
20	Christine Willie	Crownpoint	Standing Rock	NM	1
21	Flora Mae Sam	Crownpoint	Coyote Canyon	NM	1

CROWNPOINT SUBOFFICE			
TOTAL PROJECTS		21	

	Name	District	Chapter	State	AZ	NM	UT
1	Begay, Yellowman	Kayenta	Cane Valley				1
2	Stanley, Ben	Kayenta	Cane Valley		1		
3	Blackmountain, Cecil	Kayenta	Cane Valley		1		
4	CLITSO, Dave	Kayenta	Cane Valley		1		
5	Cly, Bessie	Kayenta	Cane Valley		1		
6	TSINNIJINNIE, Peter	Kayenta	Chilchinbeto		1		
7	Mitchell, Pauline	Kayenta	Cane Valley		1		
8	Sloan, Hoskey	Kayenta	Cane Valley		1		
9	THOMPSON, Mary	Kayenta	Inscription Hse		1		
10	Stanley, David	Kayenta	Cane Valley		1		
11	Yellowman, Bessie	Kayenta	Cane Valley				1
12	Tsinnijinnie, Sarah	Kayenta	Chilchinbeto		1		
13	James, Bill	Kayenta	Chilchinbeto		1		
14	James, Clarita	Kayenta	Chilchinbeto		1		
15	James, Gary	Kayenta	Chilchinbeto		1		
16	James, Larry	Kayenta	Chilchinbeto		1		
17	James, Queeny	Kayenta	Chilchinbeto		1		
18	James, Roger	Kayenta	Chilchinbeto		1		
19	Young, Elouise James	Kayenta	Chilchinbeto		1		
20	Big, Betty	Kayenta	Chilchinbeto		1		
21	Nephew, Donna	Kayenta	Chilchinbeto		1		
22	Nephew, Elaine	Kayenta	Chilchinbeto		1		
23	Black, Roy	Kayenta	Mounment Valley		1		
24	Black, Sally	Kayenta	Mounment Valley		1		
25	Chatter, Lela	Kayenta	Mounment Valley		1		
26	Gray, Anges	Kayenta	Mounment Valley		1		
27	Todacheene, Sharon	Kayenta	Kayenta		1		
28	Tso, Jonathan David	Kayenta	Kayenta		1		
29	Benally, Leo	Kayenta	Mexican Water		1		
30	Keith David, Hazel	Kayenta	Mexican Water		1		
31	Saggboy, Benjamin	Kayenta	Mexican Water		1		
32	Barlowe, Thomas Haskie	Kayenta	Shonto		1		
33	Allen, Lilly	Kayenta	Kayenta		1		
34	Newsome, Sally	Kayenta	Kayenta		1		
35	Stanley, Mary	Kayenta	Gouldings		1		
36	Navajo, Vada Jane	Kayenta	Navajo Mtn				1
37	Austin, Mary	Kayenta	Inscription House		1		
38	Begay, Wilfred	Kayenta	Inscription House		1		
39	Clitso, Stanley	Kayenta	Kayenta		1		
40	Gilmore, Helen	Kayenta	Chilchinbeto		1		
41	Laughter, Ellison	Kayenta	Shonto		1		
42	Smith, Nelson	Kayenta	Shonto, Arizona		1		
43	Wilson, Don	Kayenta	Cane Valley		1		
44	Betty Crank	Kayenta	Kayenta		1		
45	Louise Crank	Kayenta	Kayenta		1		
46	Solomon Begay	Kayenta	Dennehotso		1		
47	Victoria Yazzie	Kayenta	Cane Valley		1		
48	Trescilla Tallman	Kayenta	Inscription House		1		
49	Lorissa Jackson	Kayenta	Cane Valley		1		
50	Gerald Featherhat	Kayenta	Dennehotso		1		
51	Elsie Crank	Kayenta	Ojato				1
52	Annabel Chee	Kayenta	Ojato				1
53	Cheryl Charley	Kayenta	Kayenta		1		
54	Pauline Begay	Kayenta	Shonto		1		
55	Rosalind Adaki	Kayenta	Dennehotso		1		
KAYENTA DISTRICT TOTAL PROJECTS					50		5