

RESOLUTION OF THE  
RESOURCES AND DEVELOPMENT COMMITTEE  
23<sup>rd</sup> Navajo Nation Council --- Third Year, 2017

AN ACTION

RELATING TO RESOURCES AND DEVELOPMENT COMMITTEE; CONFIRMING THE  
APPOINTMENT OF NADINE CLAH TO THE NAVAJO NATION  
TELECOMMUNICATIONS REGULATORY COMMISSION

**Section One. Authority**

A. The Resources and Development Committee of the Navajo Nation Council has oversight authority with respect to communications and utilities. 2 N.N.C. § 500(C).

B. The Resources and Development Committee of the Navajo Nation Council has been empowered to confirm grant final confirmation of appointments to enterprise boards... under the authority of the Committee requirement appointment. 2 N.N.C. §501 (B)(9).

**Section Two. Findings**

A. The Navajo Telecommunications Regulatory Commission (Commission) is established under 2 N.N.C. §§ 3451-3455.

B. The Commission consists of seven Commissioners appointed by the President of the Navajo Nation and confirmed by the appropriate committee of the Navajo Nation Council. 2 N.N.C. §3454(A)

C. The appointment to the Commission shall be for a period of four (4) years. 2 N.N.C. § 3454 (B).

D. The President of the Navajo Nation has appointed Ms. Nadine Clah to the Navajo Nation Telecommunications Regulatory Commission for a period beginning September 7, 2015 and ending September 7, 2019. Appointment letter attached as **Exhibit A**, letter of interest as **Exhibit B** and resume as **Exhibit C**.

E. The Navajo Nation finds it in the best interest of the Navajo Nation to confirm the appointment of Ms. Nadine Clah to the Navajo Nation Telecommunications Regulatory Commission for a period beginning September 7, 2015 and ending September 7, 2019.

**Section Three. Approval**

The Resources and Development Committee of the Navajo Nation Council hereby confirms the appointment of Ms. Nadine Clah to the Navajo Nation Telecommunications Regulatory Commission for a period beginning September 7, 2015 and ending September 7, 2019.

**CERTIFICATION**

I, hereby certify that the following resolution was duly considered by the Resources and Development Committee of the 23<sup>rd</sup> Navajo Nation Council at a duly called meeting at Navajo Technical University, Crownpoint, Navajo Nation (New Mexico), at which a quorum was present and that same was passed by a vote of 3 in favor, 0 opposed, 1 abstained on this 27th day of June, 2017.

A handwritten signature in black ink, appearing to read 'Ben Bennett', with a long horizontal stroke extending to the right.

Benjamin Bennett, Vice Chairperson  
Resources and Development Committee  
of the 23<sup>rd</sup> Navajo Nation Council

Motion: Honorable Walter Phelps  
Second: Honorable Benjamin Bennett



# THE NAVAJO NATION

RUSSELL BEGAYE  
JONATHAN NEZ



March 8, 2017

Nadine Clah  
P.O. Box

Dear Ms. Clah:

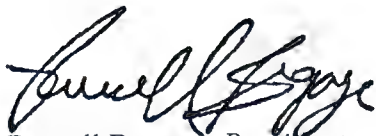
It is my distinct pleasure to appoint you to the Navajo Nation Telecommunication Regulatory Commission pursuant to my authority under 2 N.N.C. § 1204(B).

Your appointment to the Board of Trustees is subject to confirmation by the Resources and Development Committee of the Navajo Nation Council. 2 N.N.C. § 3453 (A). The term shall be from **September 7, 2015 to September 7, 2019.**

Thank you for your desire to serve on the NNTRC and for the Navajo Nation. If you have any questions relating to your appointment, please contact Karis N. Begaye, Legal Counsel, Office of the President and Vice President at (928) 871-7812.

Respectfully,

THE NAVAJO NATION

  
Russell Begaye, *President*

  
Jonathan M. Nez, *Vice President*



March 7, 2017

Nadine Clah

Dear Honorable President Russell Begaye,

With over 20 years of experience in Project Management, Geographic Information Systems (GIS) and Information Technology (IT) network development while working for the Navajo Housing Authority and Gila River Indian Community. I have a comprehensive knowledge of software, hardware and peripherals that has allowed me to gain the organizational skills and industry expertise that can be effectively utilized as a Board Member of the Navajo Nation Telecommunications Regulatory Commission (NNTRC). After working as the GIS Coordinator and IT Analyst with the Navajo Housing Authority, I am now prepared to apply my knowledge and experience to a Board of Commissioner with the NNTRC.

My most recent efforts have been concentrated on improving the Navajo Housing Authority's GIS and IT network capabilities through a variety of technological enhancements projects including:

- Developing a two phased GIS Data Center Modernization where
  - Phase 1 – Core Infrastructure Build out - Installation of a 125Kw Generac generator with an 250A Automatic Transfer Switch (ATS), upgrade of fiber backbone to OM-1 625.5/125, upgrade of cabling from CAT-5 to CAT-6, installation of APC InfraStruXure server racks, providing In-Row cooling, and battery backup capacity for existing and future growth and using the ATS and generator for continuous run-time, installation of chemical fire suppressant to minimize equipment damage in case of fire and the installation of redundant Internet Service Providers to ensure NHA connectivity at all times.
  - Phase 2 – Server and Network Infrastructure Design - Installation of 8 physical servers with the following software: Cisco VMware vCenter Server, Microsoft Exchange 2013, Microsoft SharePoint 2013, Microsoft SQL Server 2012, Microsoft Project Server 2013, Secure File Transfer Protocol (SFTP), Active Directory Domain Controller, Citrix Zen App Platinum, ArcGIS for Server Advanced Enterprise, 3 NetApp 2552 SANs with approximately 16TBs of space, 2 Cisco Nexus 2548 switches, 2 Cisco Catalyst 3750 switches, 8 Cisco 2948 switches, 2 Cisco 3925 routers with hot failover capability, 1 SonicWall NSA660 firewall, Redundant fiber connections to each building for failover capability, and 1 KVM for each of the four racks. Communication Utilities Upgrade include Citrix Platform for ArcGIS, SharePoint Site, ownCloud File Transfer, Smartboards, ShoreTel VoIP Phones and Microsoft Lync Web Conferencing.

My efforts at the Gila River Indian Community were concentrated on improving the Gila River Indian Community's Public Safety Infrastructure and GIS capabilities through a variety of technological enhancement projects including:

- Originated, implemented and executed as a member of the Enhanced 9-1-1 and Public Safety Task Forces to bring Enhanced 9-1-1 service to 3,500 structures by managing \$350,000 in state funding. Supervised two subtask groups to assist with the Enhanced 9-1-1 Project. Developed a unique, never before implemented nested-grid addressing scheme on October 11, 2006. The addressing scheme utilized was the first of its kind in the United States. The project was completed under budget.
- Improved the Insurance Services Office (ISO) Fire Suppression Rating Schedule (FSRS) rating and reduced insurance premiums by 50% for the Community by leading a fire hydrant project and coordinating the mapping and data collecting procedure of approximately 1,000 fire hydrants for efficient water distribution and suppression.
- Facilitated a \$4.5 million radio system upgrade by working with a six person team to determine equipment purchases, implementation and Return on Investment (ROI) to develop a digitally trunked 800 MHz radio system. The radio system was completed in three years and saved half a million dollars for future development. Motorola CENTRACOM Elite dispatch control center consoles, mobiles, and portables were purchased for all GRPD, GREMS and GRFD.

I believe that telecommunication should be available to every individual to achieve their goals and dreams. I believe that the Universal Service fund was met to be applied to the rural areas that exist within and surround the Navajo Nation. I believe that every school, Health facility, public safety entity and community centers should have affordable telecommunication service to build the foundation that will support the economic ambitions of our growing nation.

Therefore I am submitting this letter of interest to be a commissioner of the NNTRC. I would appreciate the opportunity to utilize my skills and knowledge to assist the NNTRC to provide opportunities to Navajo Nation and its people.

Additional capabilities are detailed in the enclosed resume. Until then, should you have any questions, I can be reached at Thank you for your attention and I  
look forward to your favorable response.

Sincerely,



Nadine Clah





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### **QUALIFICATIONS**

Dedicated, competent Professional with over 20 years expertise in Project Management, Geographic Information Systems (GIS) and Information Technology (IT) development. Self-motivated, proactive and innovative with a broad range of experience including IT, GIS, GPS, Telecommunications and Public Safety software. Comprehensive and advanced knowledge in software, hardware, and Microsoft® Network Systems. Exceptional managerial and problem solving capabilities and administrative abilities in network security, user maintenance, and technical support. Fluent in English and moderate Navajo. Advanced proficiencies in Microsoft® Office Professional Suite, Microsoft® Windows 7/8/10, ESRI ArcGIS Enterprise and 10.x Suites. Proficient with use of Adobe® Acrobat 11.x and DC, Adobe® Photoshop, Adobe® Illustrator, and Pinnacle Studio 19.

### **PROFESSIONAL EXPERIENCE**

NAVAJO HOUSING AUTHORITY, Fort Defiance, Arizona

2010 – Present

*GIS Coordinator and IT Analyst, Development & Construction Services Division (D&CSD), (08/2010 – Present)*

- Participates in the development and implementation of departmental goals and objectives with supervisor, including project prioritization and classification of strategic, tactical, maintenance, and other GIS projects.
- Coordinates GIS projects; plans and organizes technical staff work to accomplish efficiency of department goals and objectives.
- Participates in the development of the GIS budget and forecast additional funds needed for staffing, equipment, materials and supplies.
- Coordinates GIS functions with other departments, divisions, and outside agencies and organizations; work in conjunction with users to ensure end product needs are met; and construct appropriate user interfaces.
- Directs and coordinated the importation of media from developers and other external sources; develops procedures to ensure efficient transfer and use of external information; interacts with agencies and the general public in the dissemination of information.
- Provides technical guidance to D&CSD staff and end users of GIS systems by conducting GIS end-user needs analysis for development and implementation of effective methods and technologies, GIS application software, standard data forms and data entry procedures.
- Provides technical support to the GIS Section of the Realty Department for storage and maintenance of quarter section maps, district maps, and as-built drawings.
- Maintains GIS and GPS hardware and software for D&CSD as well as in other NHA departments. Utilizes best practices and available software development tools to extend and customize GIS to meet user needs.
- When assigned as project lead/manager, communicates project objectives, plans and status to all members of a project team and senior management.
- Assists in education and promotion of GIS to current and potential users, stakeholders and staff.
- Monitors use and operation of department GIS hardware, software, and databases; including, evaluating and investigating prospective solutions (i.e. hardware, software, training, procedures and maintenance) and makes recommendations for purchases and/or upgrades.

- Originated, implemented, and executed as an original member of the Enhanced 9-1-1 and Public Safety Task Forces, established in 1996, to bring Enhanced 9-1-1 service to 3,500 structures by managing \$350,000 in state funding. Supervised two subtask groups to assist with the Enhanced 9-1-1 Project. Developed a unique, never before implemented nested-grid addressing scheme on October 11, 2006. The addressing scheme utilized was the first of its kind in the United States. The project was completed under budget.
- Maintained, updated, created and oversaw quality control of GIS data and imagery updates for the Enhanced 9-1-1 project which included the Public Safety Answering Point (PSAP) or GRIC Dispatch center and mobile computers for Police, Fire and EMS.
- Improved ISO rating and reduced insurance premiums by 50% for the Community by leading a fire hydrant project and coordinating the mapping and data collecting procedures of approximately 1,000 fire hydrants for efficient water distribution. Required by National ISO Office for regulatory acceptance and compliance.
- Facilitated a \$4.5 million radio system upgrade by working with a 6-person team to determine equipment purchases, implementation and ROI to develop a digitally trunked 800 MHz radio system. The radio system was completed in three years and saved half a million dollars for future development.
- Participates in the development of the Public Safety Task Force Capital Project budget and forecast additional funds needed for staffing, equipment, materials and supplies.
- Assisted with the research in companies for Public Safety portable and mobile solutions for Gila River Police Department, Fire Department and Emergency Medical Services.
- Member of team used to evaluate Computer Aided Dispatch (CAD) companies for the Gila River Police Department at the completion of the installation and use of the now Intrado Positron Suite of E9-1-1 Call Handling equipment and services, which include Positron Power 911®, Positron Power Map®, Positron MIS®, and Positron VIPER®.
- Trained to maintain and administrate the Intrado Positron Suite of E9-1-1 Call Handling equipment and services, which include Positron Power 911®, Positron Power Map®, Positron MIS® and Positron VIPER®.
- Assisted with the development of Memorandum of Agreement and Understanding with surrounding cities regarding the use of Telecommunication Towers and any associated information.
- Assisted with continuing cooperative efforts between the State of Arizona 9-1-1 Program, Bureau of Indian Affairs, Gila River Indian Community, surrounding cities and major Public Safety companies.
- Contributed to a 4-year project in GIS collaboration with the Bureau of Reclamation by supporting the creation of over 80 ESRI ARC/INFO coverages for the planning of the Central Arizona Project Canal System and Hydrographic Survey Report for the Gila River Water Settlement, the largest tribal water settlement in U.S. history.
- Maintained GIS network and peripherals by managing technical support, training, and development issues.
- Assisted with the development of statistical data for use in reports, project enhancement and training. Data was created using Microsoft Excel or Access, Mathematica, SQL templates for use in GIS software.
- Implemented the use of ESRI ArcView and ArcInfo by training employees to manipulate data created for specific needs within projects including but not limited to Cultural Resources, Transportation, Public Works, and Public Safety.
- Oversee geographic information systems functions, such as data capture, editing and updating, retrieval of spatial data, data output and database management.
- Responsible for project analysis and evaluation, determining data sources and preparation, establishing priorities for data entry, verification and accuracy of data, establishing quality control policies of product generation and project output and data transfer between user groups.



- Ensure products produced are correct and meet Federal Geographic Data Committee and Inter Geographic Data Committee standards.
- Provide instruction to others for the collection, input, output and analysis of data to the geographic information systems database.
- Recommend methods to input engineering data; identify limitations in resulting data; prepare flow diagrams and code data for computer use.
- Assist departments and fellow personnel with the completion of projects. This included creating graphics, displays, maps, statistical representation of data for use in tribal buildings, enterprises, literature, signs and litigation proceedings in Tribal, State or Federal Courts.
- Utilize as many tools need for project maintenance or completion. Tools included digital cameras, GPS units (sub-meter accuracy), digital video cameras, imagery, high resolution printers and scanners and 36-60 inch plotters.

GILA RIVER INDIAN COMMUNITY, Sacaton, Arizona  
**Management Information Systems Specialist (7/1995 – 11/1995)**

- Managed one Novell 2.14 and three Novell 3.12 computer networks and associated peripherals by managing technical support and training for the 80 departments within the Community.
- Sustained operations by recommending and acquiring computer hardware and software.

SCIENTIFIC TECHNOLOGIES CORPORATION, Tucson, Arizona 1995  
**GIS Specialist, GIS Training & Applications Center (1/1995 – 7/1995)**

- Developed GIS for defense and private sector companies by marketing with tribes within the United States, Bureau of Indian Affairs, and Indian Health Services.
- Supported ongoing projects by assisting associates with developing spatial and tabular data for disease outbreaks and containment.

THE NAVAJO NATION, Gallup, New Mexico 1993 – 1994  
**Statistical Research Analyst I, Transportation Planning Program**

- Developed and maintained databases including but not limited to the Navajo Nation Public Safety Accident database and the Bureau of Indian Affairs Road Inventory database.
- Contributed to the development of a GIS by using GPS units and dynamic segmentation to link the Bureau of Indian Affairs Road Inventory Database and the spatial data.
- Participated in the creation of over 8,000 miles of road centerlines by using GPS technology and assembling personal computers with related software for the office.
- Addressed issues regarding peripheral and computer maintenance and technical support.

## EDUCATION

ARIZONA STATE UNIVERSITY, Tempe, Arizona  
**Bachelor of Arts in Mathematics with a minor in Probability & Statistics, May 2002**

DINÉ COLLEGE, formerly Navajo Community College, Tsaile, Arizona  
**Associate of Science in Mathematics and Associate of Science in Computer Science, May 1989**

## CERTIFICATIONS

**Geographic Information Systems Professional (GISP)**  
 GIS Certification Institute, Des Plaines, IL, September 2015