

David D. Seelye

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EMPLOYMENT HISTORY

DEPARTMENT OF ARMY / US ARMY KWAJALEIN ATOLL, [REAGAN TEST SITE](#) (USAKA / RTS)

Aug. 2004 to Present

Telecommunications Manager & Deputy Director Of Information Management GS13 /10

Responsibilities, Activities and Duties:

Head of USAKA Command Telecom Department for United States Army Kwajalein Atoll (USAKA). USAKA is a Government owned contractor operated, highly technical RDT&E range. USAKA boasts a full inventory of deep space and target acquisition sensors, telemetry, undersea hydrophone (splash detection) array, and full spectrum optics systems. Sensors are locally and remotely managed via OCONUS and CONUS based control centers via multiple integrated communications systems over highly robust short and long-haul commercial and Defense Satellite Communications Satcom (DSCS), or multi-lambda DWDM undersea fiber systems.

As the Telecom Manager I oversee the operations, test, and mission readiness of IM systems and facilities and equipment to ensure systems will satisfy or exceed customer requirements, I must also ensure quality of Range Safety data and environmental requirements. My responsibilities include management and evaluation of the USAKA range contractor to maintain mission readiness. Other duties include participation on multiple Integrated Product Teams (IPT) to satisfy diverse customer requirements, Federal (e.g. NASA), DoD (e.g. Missile Defense Agency), Commercial (e.g. SpaceX).

As a Sr. Contract evaluator I provide award fee evaluation submissions to the contract award fee board IPT. The position also requires, budgeting, acquisition, lifecycle planning, scheduling, and deployment of major projects compliant with DISA, I3A, JITC, and other requirements such as ensuring system operational readiness in highly corrosive tropical ocean environment. The position requires the professional presentation of informational and decision briefings for, Sr. SES management, military and range customers up to the three star General level.

My assigned DoD Frequency Coordinator duties demand familiarization with AESOP and Spectrum XXI functionality. They also include close coordination with the US Department of State Telecom Policy Desk as a permanent member of the US Department of State delegation supporting Foreign Government telecom policy US agenda items with Republic of Palau, Federated States of Micronesia, and the Republic of the Marshall Islands. In addition this duty requires close coordination of spectrum issues related to the transiting of US Navy Fleet, Coast Guard vessels, and range customers.

In support of the USAKA mission I maintain positive, productive working relationships with the range contractor, other RDT&E ranges, and agencies or groups, such as those identified below: Pacific Missile Range Facility (PMRF); China Lake; Vandenberg; PAX; NUWC Keyport and AUTEK; etc...NASA; MDA; DISA; DITCO Headquarters and DITCO PAC, DREN management; Massachusetts Institute of Technology / Lincoln Labs; Boeing Defense and Space; Space-X etc...

Special assignments:

Kwajalein Cable System (KCS)

Assigned by the USAKA Commander as the USAKA POC for the acquisition of the \$110M undersea fiber optic cable system connecting Kwajalein Atoll with Guam. This fourteen hundred nautical mile 160Gb/s undersea fiber cable system will carry mission, admin and customer data to DISN nodes and range customers located world wide. The system will be shared among Host Nations and demands knowledge of diplomatic international agreements. This major project demanded my participation in extensive ocean-floor surveys with ocean depths past 9000 meters, cable route development due to newly discovered undersea mountain ranges, Environmental Assessments and DEP on Foreign soil under US State Department oversight, sensitivity to issues found in former WWII battlefield areas such as US and Japanese human remains and removal of WWII un-exploded Navy ordinance.

SMDC / USAKA Transition Team IPT

Selected by Space and Missile Defense Command SES management to participate as a full time member of the IPT charged with transforming the USAKA Command to function under a FY09 25% POM reduction.

I3MP Outside Plant Modernization Program

Provide program support to I3MP team to upgrade major range communications systems

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Command Representative:

[Range Commanders Council](#) Telecom / Timing (TTG) and Frequency Management (FMG) Groups.

Awards

- See "Training" section at end of resume for current training elements
- Letter of commendation from US State Department for support of JTB efforts (2007)
- Out of sequence step increase from GS-13/9 to GS-13/10 (2006)
- Step increase from GS-13/8 to GS-13/9 (2005)
- Commanders coins for quality support to Reagan Test Site
- Letter of recommendation by the SMDCK base Commander (2006)
- Consistently receive "Exceeds Expectations" on annual performance management reviews.

DEPARTMENT OF ENERGY ([BONNEVILLE POWER ADMINISTRATION](#)), SNOHOMISH, WA

Jan. 2003 to Aug. 2004

Supervisory Engineer - Communications (District Engineer) GS-0855 - 13/8

Sept. 2001 to Jan. 2003

Power Systems & Control (Communications Engineer) GS-12/9 0855

Similar to above, without official supervisory responsibilities.

Bonneville Power Administration (BPA) is administered under the US Department of Energy. BPA manages, operates, and maintains the nuclear, hydro and alternative power generation and 500,000V high voltage distribution for Oregon, Washington, and Montana and Idaho. As supervisory engineer I was charged with managing the technical staff, and O&M processes for high speed low latency fully redundant communications systems which are critical for reliable power grid management and safety of personnel and public property.

Responsibilities, Activities and Duties:

Telecommunications Manager / Supervisory Engineer and technical expert for Bonneville Power's District #1 telecommunications service area (PSC Group).

- Management and senior technical expert responsibilities for district telecommunications personnel
- Acquisition and test of new technology in support of DoE communication systems
- Communications systems. These systems encompass numerous technologies (e.g.)
 - DS0 and Audio; RF systems from HF to 8Ghz;
 - Modern Digital and outdated analog microwave systems;
 - SONET Mux systems;
 - Digital and analog telephone systems;
 - Networked systems for access to BPA's internal field instrumentation TCP/IP control network,
 - In summary; all communication systems used for the monitoring and control of Washington's district -#1 power system).
- Communications systems performance analysis
- Project management for new system installations
- Management of Operation & Maintenance activities for work crews to ensure strict adherence to all BPA safety requirements.
- System failure analysis
- Management of subordinates and work crew activities
- Resource utilization and planning
- Represent the district in a variety of management level meetings
- Prepare equipment specifications
- Prepare comprehensive technical reports utilized in engineering evaluations leading to resolution of engineering issues with other organizations and contractors
- Perform engineering studies.
- Determine the compatibility of the new equipment, including vendor redesigns and modifications

A listing of selected systems/equipment under my responsibility:

- AT&T / Lucen /Avaya DDM-2000 OC-12 Mux
 - Cisco 15454 OC-48 Mux
 - GE/Nortel OC-3/OC-12 J-Mux Multiplexer
 - SONET Optical Fiber Ring Networking
 - Optical TDR and many/most other types of test equipment
 - TrueTime GPS
 - IEEE-488 Controlled Systems
 - 10/100 Ethernet Field Maintenance Network
 - NEC 7Ghz Analog Microwave Systems
 - NEC EC-12 Digital Microwave Radios
 - ALCATEL MDR-8000 Digital Microwave Radios
 - BADGER Alarm point Multiplexer
 - MDS 900Mhz Spread Spectrum Radios
 - Comdial Digital Telephone Key Systems
 - Avaya/Lucent Definity telephone switch
 - TelLabs Equipment
-

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- RFL Transfer/Trip equipment.
- UHF/VHF Mobile Radio Network with repeaters
- UHF Point to Point RF Links
- LEDR-900 900Mhz Digital QAM P-P Radio
- Numerous types of DS0 to DS1 Mux Equip.
- SCADA 8600 RTU Systems
- Legacy Copper Telecommunications Systems
- Positron Teleprotection Systems
- CISCO Ethernet Equipment

Awards

- Promotion to Supervisory Engineer in January, 2003
- Promotion from GS-12/9 to Supervisory GS-13/8 in Oct, 2002.
- Team Award - San Juan area submarine cable integration
- Performance Award – Engineering efforts towards design and integration of system improvements.
- Numerous Peer Awards 2001 - 2004
- Consistently receive “Exceeds Expectations” on annual performance management reviews.

NAV-SEA [ATLANTIC UNDERSEA TEST & EVALUATION CENTER](#) ANDROS, BAHAMAS)

June 27, 1999 to Sept, 2001

Sr. Communications Systems Engineer

Responsibilities, Activities and Duties:

AUTEC is operated under NavSea's Naval Undersea Warfare Center. AUTEC functions as US and NATO country undersea, surface and air weapons test range. As the Sr. Telecom engineer I was responsible for the design, operation, maintenance and repair of all telecom systems to provide support to US and Foreign range customers. Duties include directing activities for 5 communications technicians as required to maintain system readiness, as well as implement system equipment and capability upgrades.

Ancillary duties included joint projects with NATO Nations, foreign owned companies and other government agencies including Bahamian Government; NAVY; NOAA; FAA.

Additional Duties

- Project management
- Responsible for diverse mix of military, consumer, analog, digital, old and new systems, including digital and analog systems from audio through 8Ghz.
- Resource utilization and planning
- Prepare comprehensive technical reports
- Determining methodology to restore severely degraded or impaired equipment
- Analyze and recommend communications enhancements proposals to the Command

A listing of selected systems/equipment under my responsibility:

Alcatel DS3 Digital Microwave (3 drop sites);	DS1 Satellite Earth station
FAA VHF/UHF Ground Station (Joint Effort)	KG-xx & KIV7 crypto
VHF/UHF Buoy Telemetry Systems (BARTS)	WSC-3 UHF FLEET Satcomm circuit.
RF Telemetry Links used for In water data transfer	Legacy Copper Telecommunications Systems
HF Comm. System Design	Avaya/Lucent Definity telephone switch
VHF Mobile Radio Network	Small office <i>Panasonic</i> and <i>AT&T</i> Telephone Key systems
DS1 Microwave LAN system design	Design of 40ch CATV Head End and Distribution System.
ClearComm Matrix Plus3 Multiplexed Digital Intercom System	Timeplex DS0-DS1 Synchronous Mux

BOEING COMMERCIAL AIRPLANE GROUP

NOVEMBER 23, 1996 to June 27, 1999. Commercial Aircraft Div. Everett Washington

Sr. Specialists RF Systems Project/Design Engineer: Responsible for acquisition, test, engineering and certification of Boeing airplane AT&T-Claircomm (Now Iridium) in-flight UHF/Satcomm information management system's; design improvements; analysis of new systems to ensure FAA compliance of all system components. System interfaced to North American Telecom Systems, & Terrestrial Flight Telecom Systems on UHF analog air-ground, and digital Satcomm links.

Sr. Specialists Avionics Systems Project/Design Engineer: Responsible for acquisition, test, engineering and certification of the 737, and associative efforts for 757, 767, 747, and 777 [HF Radio Communications Systems](#) including engineering design, on airplane troubleshooting, Boeing and FAA certification testing, and electromagnetic interference (EMI) analysis with EMI team which included airplane test support.

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Other responsibilities: Responsible for acquisition, test, engineering and certification of new HF "Datalink" systems, Vendor management, Industry conferences, Design reviews, New hardware/software performance evaluation and overall system design improvements.

SES FLEXCHARGE USA

JUNE 1988 to Present (Consultant Eng. 6 years prior to 1994 and post 1996)

50% Owner and Founder with Chief Product Design Engineer Responsibilities (Alternative Energy Systems controllers & related components);

Responsibilities, Activities and Duties:

Responsible for all engineering design, test, lifecycle planning and evaluation of product line including the conversion to lead free products. Early identification of consumer needs yielded the development of ultra high efficiency industrial / consumer analog/digital [controllers](#). Products are for sale from numerous retailers including West Marine Inc.

Through the application of sound engineering design practices, life cycle planning, and product test & evaluation, the Flexcharge Product line has enjoyed many years of success. Controllers are in use world wide including Antarctica, above the arctic circle, United Arab Emirates and many ocean-going vessels. Failure rates from all causes are less than 0.2%

Development of each product requires contracting with PCB manufacturing agreements with US and Foreign contract assembly houses, as well as distributors, dealers and customers.

I am directly responsible for all product lines from inception to market including: PCB design; Accelerated reliability testing; EMI reduction techniques; Packaging; Cost and weight reduction practices; Design for harsh environment survival; Responsible for the preparation and web publishing of product documentation. I am familiar with components and IC's from many Mfg's.

Awards

Obtained US Patent for innovative controller designs which achieved and sustained a 3% gain in efficiency over all competitors products, and moved Flexcharge products from idea to profitable in 10 months.

CAPE CANAVERAL AIR FORCE STATION / EASTERN SPACE AND MISSILE CENTER / [45th Space Wing](#))

JUNE 1985 TO JUNE 1994, Pan Am World Services then Computer Sciences Corporation / Raytheon

Sr. Project/Design Engineer - Electronic Communications Systems

Performed Jr., and later, Sr. RF Comm System project engineering, and project management using COTS and GSA Contract components for many types of US Air Force, and Navy communications systems.

Responsibilities, Activities and Duties:

Responsible for acquisition, test, engineering and implementation of DoD communication systems in support of Eastern Test Range, Kennedy Space Center, Cape Canaveral AFS, Antigua & Ascension Island AAF stations. Selected communications projects on the Western Test Range (Vandenberg AFB) facilities. Communications systems project engineering for US Navy Ship [Observation Island](#) (USNS Cobra Judy & USNS Redstone).

Projects required Engineering/Management; RF system design; RF link budget analysis; On site engineering; Vendor management; Multi vendor equipment interfacing including electronic circuit design; Coordination of work between multiple subcontractors in extremely hazardous industrial and remote locations; On site engineering support; assigning & coordinating work for teams of installation technicians; System performance testing and verification; Project scheduling; Procurement requests for materials; Annual budget estimates; Remote site engineering surveys; Coordination with FAA / FCC.

With many of the Eastern range sites in remote overseas locations, extra attention had to be given to planning, preparation and details. *Many of the following projects ran concurrently requiring efficient project management.*

- Digital microwave communication systems
- Major long-haul HF Communication systems
- Cobra Judy RF Comms and closed area Intrusion detection systems (Mil-Standard 1680(B) certified)
- VHF & UHF Air-Ground and mission ops networks
- UHF Fleet Satcom at Eastern and Western ranges
- Secure mission voice systems

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EDUCATION & OTHER SKILLS

EDUCATION BACKGROUND

[LAKE SUPERIOR STATE UNIVERSITY](#), Former Name (Lake Superior State College) Sault Ste. Marie, MI 49783

Major: Bachelor of Science in Electronic Engineering Technology.

Minor: Associate of Science in Computer Engineering Technology.

LSSU Holds the highest level of ABET accreditation for these curriculums. Graduation Date: May 1985

SPECIALTY COURSES (College)

Electronic RF Communications Sys.

Antenna Theory

Engineering thermodynamics

Digital/Analog Modulation

Cellular / CDMA (in 1999)

Microwave theory

Advanced circuit analysis

Microprocessor interfacing

Cellular Design & Optimization (1999)

Transform circuit analysis

Static's and strengths of materials

Waveguide / transmission line theory, and more.

High School: Charlevoix High School, Charlevoix MI, 49720. Diploma received June, 1980.

POST COLLEGE FORMAL TRAINING

- All required security and admin training (Continuous)
- NSPS 101 course (FY2007)
- Level 1 Certified, Level 2 DAU acquisition training is in process (FY2007)
- Spectrum XXI frequency management Software (FY2005)
- Transition to Management Training (BPA 2003)
- Department of Energy / BPA Managing and Measuring Work (New DoE Performance Plan) (24 Hours) Dec, 2003
- LabView-7 – Vendor Provided Hands-on Training (8 Hours) July, 2003
- RAD Data Communications - Megeplex DS0-DS1 Mux (24 hours) June, 2003
- Transition To Management – Federal GS Service Management Training (32 hours) May, 2003
- CISCO - 15454 OC-48 SONET Mux (24 Hours) Feb, 2003
- Microwave Data Systems – LEDR 900Mhz Spread Spectrum Radio (24 Hours) Nov, 2002
- Department of Energy / BPA – RFL9745 Power Line Protection Telemetry Equipment
- Department of Energy / BPA – Western Mux 2GHz Analog microwave system (24 Hours) Aug, 2002
- AT&T/Lucent - DDM-2000 OC-3,12,48 Fiber Optic Mux, 32 hrs, May 2002
- GE/Nortel Networks - JungleMux OC-3,12 Fiber Optic Mux, 40 hrs, February 2002
- Milgo Solutions - Timeplex Link/2+ DS0/DS1 Multiplexer Operations, 40 hrs, February 2001
- Department of the Navy - Navy Tempest Inspectors course. Ship board elimination of RFI emissions from secure areas. MIL-STD-1680(B) (Norfolk, VA 40 Hours Nov. 1992)
- George Washington University - Optical Fiber Communications: (40 Hours 3/1989)
- George Washington University - HF Communication Systems (New Concepts): 4/1988

SOFTWARE / PROGRAMMING EXPERIENCE

TANGO Pro (pcb CAD)

AutoCAD Rel 14 & 2000

BASIC

PASCAL

Visual Basic 6.0

Five-Nines RF Link Analysis Software.

Or-Cad Ver 9 (pcb CAD)

Visio

ProComm

Adobe Products

Web Site Development >>>

WS Windows 95 - XP

P-Spice for Windows

Misc RF Path / Prop. Tools

MS Office products

Corel Products

<http://www.flexcharge.com/>

VOACAP HF Propagation Modeling Software

Assembly language

C++ (dos)

UNIX

Intro to MatLab

Raytheon Comm.
Department Intranet Web Site

Certificates & Licenses

Electrical Workers Permit - Expired Drivers License

Other Skills

Engine/Auto Mechanic

General Contactor (Home construction)

Ocean Sailing / Navigation

Citizenship: USA

SECURITY CLEARANCES

DoD Top Secret: 2006 - Present – (DoD Army)

DoD Top Secret: 1999 to Sept. 2001 – (Naval Underwater Warfare Center, NUWC)

DoD Secret: 1985 to 1994 – (45th Space Wing)