

RESUME OF

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Norman Aylward

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LANGUAGES: English and intermediate spoken Thai

WORK EXPERIENCE:

Over 35 years in the oil and gas and power generation sectors of construction, inspection, engineering, maintenance, operations, and supervisory positions. I consider myself team player. Experienced in electrical, instrumentation control and mechanical systems, onshore and offshore. I have broad general industrial knowledge, practical understanding of many disciplines, processes, and procedures. Experienced in fabrication, E&I QC, installation, calibration, commissioning start up, trouble shooting, competent and familiar with computer systems, specifications, various codes including API, NEC, IEC, ISA, NFPA, ANSI, etc. and all types of drawings. I have worked extensively guiding and teaching personnel, implementing and improving designs in, safety systems, PLCs, measurement, control systems, pneumatics, electrical distribution, power generation, security, fire and gas, writing various procedures etc. Positions include:

Instrument QC Inspector	Instrumentation Consultant
Operations Representative.	Electrical Supervisor
Instrumentation Supervisor	Project Manager
Electrical Field Engineer	Electrical Consultant
Commissioning, Startup Engineer	Instrument Engineer
Warranty Engineer	Electrical QC Inspector
Operations Assurance Rep	SERIP Coordinator

EMPLOYMENT HISTORY

May 11 to March 14; EMPLOYER: Chevron Bangladesh (SPIE Oil & Gas Services)

PROJECT: Chevron, Surface Equipment Reliability & Integrity (SERIP) process

DUTIES: SERIP Advisor: see Thailand below with similar duties in Bangladesh also includes working with Facilities Engineering and Operations Assurance, POP etc.

Nov 04 to Sept 10; EMPLOYER: Chevron Thailand (Brunel Energy Thailand Ltd.):

PROJECT: Chevron, Surface Equipment Reliability & integrity (SERIP) process

DUTIES: SERIP Process Coordinator: Developing a corporate mandated program producing local procedures designed to standardize maintenance and operations functions and a higher standard of reliability for field equipment. Program involves organizing, developing and documenting, training of the new procedures. Development included procedures for O&M Philosophy, Equipment Criticality, Work Order Management & Prioritization, Planning, Scheduling, RCM, Inventory Optimization, Alarm and Process Controls, Turn Around & Shutdown, Asset Integrity and Equipment Standardization.

FEB 02 to Oct 04; EMPLOYER: ChevronTexaco Thailand (BES Energy Services):

PROJECT: ChevronTexaco Block B8/32

DUTIES: Control Systems Specialist/ Operations Representative and Yard QC Inspector

Initially offshore Control Systems Specialist. Moved onshore for new wellhead platforms and existing facility upgrades. Involved in all areas including conceptual plans, detailed design, installation of E,I and C fields, piping, structural layout, safety, HVAC, mechanical, testing and inspection. Primarily Operations Rep but also project engineer later, interfacing with all disciplines and Operations. Involved in General Spec, HAZOP, SIL, FATs and vendor reviews. Generally involved in all phases of the construction process and based in the yard including pre-commissioning and commissioning..

JUNE 99 TO Dec 01; EMPLOYER: Siemens Westinghouse
PROJECT: Laem Chabang IPT 700 MW power plant Thailand.
DUTIES: Startup Engineer

Commissioning, debugging and troubleshooting. Duties included working with PLCs correcting program errors, water treatment control problems, marking up as-built dwgs., verifying calibrations, loop checks, solving installation/ design problems and field testing control systems with vendors on equipment such as duct burners and emissions monitoring to bring plant to commercial operations.

JAN 99 TO JUNE 99; EMPLOYER: Esso Thailand [Campbell (Thailand) Co. Ltd]
PROJECT: Sriracha T.A.R.P aromatics plant installation.
DUTIES: Startup Instrumentation Engineer

Working as instrument engineer on the startup team for the Esso T.A.R.P. Project. Duties include punch listing, field engineering checks, drawing markups and inspection of system turnovers to the refinery. Also field checking all design aspects ensuring correct installation & commissioning readiness, installation QC.

APRIL 98 TO JUNE 98; EMPLOYER: Esso Thailand
PROJECT: Esso Thailand Sriracha turn around.
DUTIES: Instrumentation Engineer

Client Representative on a "turn around". Assisted in drawing checks, site work with sub-contractors, checking all facets of instrumentation modifications including loop checks back to DCS with particular attention paid to anti surge modifications being applied on compressors.

SEPT 97 TO DEC 97; EMPLOYER: Thai Nippon Steel Engineering and Construction (TNS)
PROJECT: Total gas platform construction at TNS Fabrication Yard Thailand
DUTIES: Mechanical, Electrical Supervisor

Managed deck crane installation and testing, including hydraulic driven platform generators. Coordinated subcontractors and company representatives and completed documentation for gas wellhead platforms including field re-machining of crane pedestal, load and functional crane tests. Also worked checking general mechanical installations, alignments etc.

EMPLOYER: Unocal Thailand (Aquatic Engineering Thailand):

-NOV 93 TO MAY 97: PROJECT: Construction wellhead platforms at Thai Nippon Steel Fab. Yard
DUTIES: Instrumentation Electrical Inspector/ Company Rep (QC).

Duties apart from inspection often involved assisting contractor in design and construction mentoring, design checking systems, material acceptability for standards and suitability, mechanical inspections of cranes, pumps, hoists, and generators. This included detailed involvement in changes from pneumatic to PLC automation. Also, included calibration verifications on all equipment, writing and checking of all I&E procedures, drawing checks, material QA/QC, handover documentation readiness, and corrections of design problems. Additionally, during all the regular duties and periods of pre-commissioning and full function testing (FAT) of all equipment also managed computer network and email systems. Assisted in dramatic improvements in safety and received several awards.

-JULY 1992 TO JULY 1993; PROJECT: Construction of riser platform (ERP) for Unocal Thailand.
DUTIES: Instrumentation Consultant (onshore and offshore startup), Thai Nippon Steel Fab Yard

Advising on calibration and installation of gas instrumentation equipment. Duties included approval of construction modification drawings, checking material quantities, types and suitability. Client Inspector (plus FAT) in the USA for generator and control panel tests for conformance to specifications and drawings. Debugging/programming PLCs, configuring electronic controllers, updating/ creating logic drawings and documentation. Commissioning and all loop checks, system debugging and shutdown matrix confirmation. In addition, managed installation, start up and testing up of the HVAC and mechanical equipment, including pumps and generators.

-JULY 1990 TO FEBRUARY 1992; PROJECT: Funan process platform, Unocal Thailand.
DUTIES: Instrumentation Supervisor (onshore/offshore Thailand construction/startup)

Part of team that reconditioned, upgraded, constructed a new central gas-processing platform from a mothballed platform in the Philippines. Duties included directing Filipino and Thai crews in the repair, installation, calibration, loop checks of the instrumentation and associated equipment. Equipment included

pneumatic, electrical, electronic devices and PLCs used in temperature, level, flow, logic, and process control etc. Modifications and repairs were a common part of the job. Completed the project with offshore construction, commissioning and startup due to lack of equipment at the yard.

NOVEMBER 1989 TO JULY 1990

Worked on small jobs as a consultant for various companies, such as Shell Oil Vietnam and Enterprise Oil Vietnam. Duties include reporting on domestic and office, generator purchases, protection, and general wiring and power system consulting.

SEPTEMBER 1987 TO NOVEMBER 1989; EMPLOYER: The O'Brien Machinery Co.

PROJECT: A powerhouse upgrade for Nord Rutile mine in Sierra Leone and a power plant installation on the island of Saipan for the government.

DUTIES: Field Engineer (Sierra Leone)/ Project Manager (Saipan)

(Sierra Leone) Change out of old switchgear with new 4160V gear and add and eighth gen. (2.5 MW EMD). Change out controls and protection equip. for new. Added automated controls for load sharing, auto synch., frequency control, plus a tenth generator set. Duties were to direct installation, commission and start up equipment, upgrade drawings and mentoring.

(Saipan) Managed construction of 15 MW emergency power plant on the island. With used equipment and compressed schedule for completion design and drawings were done at site. Managing a crew of 60, and delivered power to 15KV grid with 6 EMDs, after 3 months of construction. Remained to complete as built drawings on AutoCAD and assist O&M program.

NOVEMBER 1981 TO MAY 1987; EMPLOYER: Westinghouse Canada

PROJECT: Power Plants in Libya

DUTIES: Warranty Engineer

Company Rep and Advisor to Libyan staff in warranty matters. Instructed client in operations and maintenance for plant take over. Developed O&M program and detailed spare lists.

Engineer

Start up for I & E, control problems on turbine generators set, fuel treatment and handling facilities. This included switchgear and distribution equipment to 32 KV. Calibration of control and instrumentation equipment, in conjunction with relay logic. Also interfaced and commissioned a protective relay system to a German substation and upgraded all schematics. Also handled turbine systems and startup commissioning at other plants. Other general duties included HV terminations, servicing motor controls, buss and switchgear.

SEPTEMBER 1981-NOVEMBER 1981; EMPLOYER: Comstock International, Ontario, Canada,

PROJECT: General Motors Shutdown, short term.

DUTIES: Electrician: Installed digital control feed system for induction furnaces.

FEBRUARY 1980-SEPTEMBER 1981; EMPLOYER: Jaddco Anderson, Burlington, Ontario, Canada.

PROJECT: steel company blast furnaces relines in Dofasco.

DUTIES: Electrician: Main duties were emergency equipment repair and safety problems in electrical systems. Equipment included various motor control centers, hoists and varied construction equipment.

APRIL 1977 - NOVEMBER 1979:

EMPLOYER: Foley Electric, Edmonton, Alberta, Canada PROJECT: Refinery Installation DUTIES: Electrician: Installation of instrumentation and control equipment.

EMPLOYER: Bennie Electric, Ontario, Canada

PROJECT: Varied, involved in steel production, food processing, hospitals, chemical industry etc.

DUTIES: APPRENTICE ELECTRICIAN: Varied duties on construction and maintenance, including alarm systems, motor controls, emergency power, HV splices and terminations including 13.8 KV, 27.6 KV and power distribution.

PERSONAL, EDUCATION AND QUALIFICATION:

Mohawk College - graduated trade school courses with honors 1975.

5 years apprenticeship program with IBEW, Canadian government certificate of qualification industrial electrician in construction and maintenance #309 A 030787

Nelson High School, graduated 1971, in Science and Technology.

Instrumentation Southern Alberta Institute of Technology.

Further upgrading courses include: Fanshaw College, OACETT courses, in math and electrical engineering along with courses in investment, navigation, air conditioning.

Valid Passport (Canadian), Marital Status: Single, Born Feb 21 1953

Hobbies: Computers, communications, Harley Davidsons

EXCELLENT REFERENCES AVAILABLE UPON REQUEST

Additional Chevron Specific Training courses:

- Chevron's Learning Management System (LMS) (KP) Administrator Training (All levels)
- CPDEP Concepts 1, 2, 3.
- OE Regular certification module 1, 2, 3, 4.
- CSOC Module 0, 1, 2, 3 and Leadership Roles and Responsibilities.
- RU 101, 102, 103, 108, 109, 201,202, 204, 214, 222, 302 & RU Site Instructor Mentoring and Certification.
- OA 101 & 201.
- Operational Excellence Dashboard: Overview, Navigation & Functionality
- Various courses on GIL 3, Manual of Compliance, OES, Business Conduct & Ethics and Information Protection.

A full list is available on request

CURRENT REFERENCES:

Available on request