



STATEMENT OF QUALIFICATIONS

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Statement of Qualifications

1.0 Introduction. Lucas Newman Science & Technologies, Inc. was incorporated in Oklahoma in the year 2000 as Nextep Technologies, Inc. to provide a facility and corporate basis for undertaking creative technical projects. Initially it involved 4 younger technical people and Dr. Lucas. It presently involves technical personnel supporting a large decommissioning project in Oklahoma as well as other contracts. The current staffing leaves us capable of undertaking new service contracts.



Figure 1. Venture I building from southeast

Lucas Newman Science & Technologies, Inc. operates a small research and analytical laboratory in the Venture I building of the Stillwater Research Park (Figure 1). The laboratory is equipped for both routine measurements of low level radioactivity and research in materials science, instrument design, and mathematical methods which aid in the evaluation of low level radiation. It has been primarily supported by the partners in the 5 year history of its existence. One project of note produced a border crossing system which detected contraband at the Mexican border of the United States. Another created a complicated assembly of radiation detectors designed for the 3-dimensional evaluation of naturally occurring radioactive materials in children.

Lucas Newman Science & Technologies, Inc. is licensed by the Oklahoma Department of Environmental Quality (ODEQ) to possess and use small amounts of a wide variety of radioactive materials. The laboratory has been audited by the ODEQ very recently and a "no findings" report was forwarded by the auditor to Lucas Newman Science & Technologies, Inc. In addition, a cabinet x-ray machine is operated under registration with the ODEQ. That machine and its operators have been audited by a second ODEQ inspector with a "no findings" report filed.

The resumes, included separately here, reflect the work history of Arthur Lucas, Harry Newman, and Barbara Lucas. Their work histories reflect more than a hundred experience years spent totally in technologies directed at the detection, measurement, and control of radiation and radioactivity. Work anticipated in the near term is expected to be based on the fact that they are highly regarded in the professions for their work. Each has a long history of serving under highly regulated conditions, creating and implementing corporate licensure and compliance.

2.0 Laboratory Capabilities. The laboratory (Figure 2), located in the Stillwater Research Park, has a plethora of instrumentation dedicated to the measurement of low level radioactivity in soil, water, and air.



Figure 2. View of Lucas Newman laboratory

A high resolution, germanium crystal spectrometer equipped with a beryllium window is especially valuable in measuring the low energy gamma rays of uranium and thorium at the same time that it reports uranium and thorium daughters up to 3 MeV. Another thin high purity germanium spectrometer is available for lower energy (0-300 keV) quantification.

Nine alpha spectrometers are especially arranged to make quick turnaround analysis of thick samples of soil and water. The proprietary software reports uranium, thorium, and radium activities with minimal processing of the sample.

A beta ray spectrometer is configured to record the spectra of several nuclides intermixed. The individual activities are determined by recursive analysis using standard spectra. A wide selection of NIM modules permits operating the spectrometer in coincidence or anticoincidence with gamma rays.

3.0 Field Assay Capabilities. An extensive reserve of instrumentation provides for the survey of potentially contaminated sites. On site analysis can be performed using gamma ray scanning, soil sampling with on site spectroscopy, and radon flux



measurement. While more time consuming, radioactivity in water is determined by alpha spectroscopy.

Thermoluminescence dosimetry is available to perform long term, environmental dose verification. Materials are available which permit measurement of gamma ray, beta ray, and neutron dose.

4.0 Professional Services. The principals of the company have a long history in the licensing and decommissioning of facilities involving radioactivity. Services are available for establishing, maintaining, and termination of license. In addition, services to the oil and gas, chemical, and minerals extraction industry are available as they pertain to radioactivity and compliance. A full suite of laboratory analytical capabilities and sources for instrument calibrations exists. The company excels in performing complex calibrations and justifications for non-routine instrument applications. Resumes for key personnel are provided in the subsequent pages.



ARTHUR C. LUCAS, SC.D., CHP

CAREER SUMMARY

Mr. Lucas has over 40 years of experience in the nuclear industry and in regulatory programs. His experience includes laboratory management, quality assurance/quality control, Research Physicist at Oklahoma State University, environmental measurements, dosimetry, and radiation safety. Mr. Lucas has a proven track record of managing projects, meeting deadlines, and ensuring comprehensive regulatory compliance. Mr. Lucas served in numerous capacities that are described further below.

HEALTH PHYSICS / PROJECT MANAGEMENT / REGULATORY COMPLIANCE

2000-

Lucas Newman Science and Technologies, Inc. President / Senior Scientist

1999 -

Nextep Environmental, Inc. Senior Scientist / Project Manager

1996 to 1998

Stillwater Sciences, L.L.C. Partner in starting business for the production of sapphire crystals for dosimetry. Sold the business in August, 1998.

Research Physicist in Physics Department at Oklahoma State University. Worked in the development of dosimeters for personal monitoring along with methods for production of luminescent crystals for dosimetry. Studying methods for quality assurance of scintillation crystals for use in x-ray CT applications.

Operated as a consultant in measurement services for NORM cleanup. Designed, constructed and deployed instrumentation for measuring radon flux from soil surface of contaminated areas and capped landfills. Perfected methodology for thick sample alpha spectroscopy, reporting separately specific activity for uranium and thorium without chemical processing of samples. Served as senior HP for Ottawa, Illinois remediation site, overseeing measurement methodology, calibration, and sampling for radium in soil, dwellings, and air.

1983 to 1995

Victoreen, Inc., Cleveland, Ohio. Vice President for Technology. Worked in the development of instrumentation for radiation measurement and quality assurance in medical and health physics. Designed first microprocessor based instruments for alpha, beta, and gamma field survey. Designed first computer based continuous alpha monitor for radon daughters and airborne uranium and plutonium. Built business in government contract work directed at the design and production of dosimeters for mass military and civil radiation protection. Supervised radiation safety.

1970 to 1983

The Harshaw Chemical Co., Solon, Ohio. Initially, program manager for Navy dosimeter design. Designed and produced the radiation dosimeter which has been the mainstay in the U. S. Navy's nuclear submarine fleet from 1972 to the present.



Later, director of research and development with responsibility for broadly based program in development of materials and instruments for used in radiation detection and measurement including detectors for assay of radioactivity, CT scanners, PET scanners, RIA devices, and airport x-ray imaging devices. Designed first sodium iodide crystal based remote, microrem monitors for nuclear power stations operating on a single wire at distances up to one mile.

Supervised design, production, and deployment of first automatic TLD readers. Completed installation and calibration of systems worldwide.

Discovered or invented, BGO as a scintillator, Calcium fluoride(Tm) as a neutron detector. Implemented the first microprocessors in the company's engineering programs. Supervised radiation safety.

1969

One year leave of absence from EG&G, Inc to work for the **National Bureau of Standards (now NIST)** in Gaithersburg, Md. GS-14 level 2 grade. Developed optimum methods for production of monoenergetic x-rays in both continuous beam and pulsed modes. Set direction for future involvement of the NBS, now called NIST, in medical imaging. Designed proportional counting spectrometer for absolute measurements of x-rays at energies down to 100 eV.

1962 to 1970

EG&G, Inc. Santa Barbara, California. Scientist involved in measurement of energy and rate dependences of dosimetry materials that might be involved in personnel exposure in the event of nuclear accident or warfare. Developed pulsed calorimeter for determining dose in nanosecond bursts of energy.

Finally, as Senior Scientific Specialist, worked in launch of National Cancer Institute program to evaluate the use of neutrons in cancer radiation therapy. Worked with the Atomic Energy Commission (AEC), now the Department of Energy (DOE), to make fundamental measurements with mesons to determine the possible effectiveness in cancer radiation therapy. Active in design of programs to instrument cyclotrons, linacs, burst reactors, research reactors, nuclear weapons, fallout fields, and plasma fusion devices. Designed field portable, triple coincidence neutron spectrometer. Designed first spherical, tissue equivalent, proportional counter for determining absolutely dose in tissue as a function of LET. That design is now a worldwide standard for such measurements. Supervised radiation safety.

1954 to 1956

United States Army, Fort Bliss, Texas. Leave of absence from GE to serve in U. S. Army. Taught electronics of radar and missile guidance to future commanding officers of Nike missile sites.

1951 to 1963

General Electric Co. X-Ray Department, West Milwaukee, Wisconsin. Worked in the Radiation Physics Laboratory, initially as technician, finally, as engineer. Designed the first remotely manipulated plotters for water phantom simulation of patient dose distributions when exposed to x-rays or gamma rays. Designed electrometer systems for



measurement of small currents. Performed basic measurements in support of standard methods for characterizing x-ray and gamma ray beams. Made measurements directed at optimal use of x-ray equipment so as to achieve best diagnostic value with minimum radiation exposure to patient and operator. Made some of the first measurements indicating the possibility of creating 3-d images by x-ray. This became CT x-ray a few years later.

EDUCATION

1949-1951 Franklin College, Franklin, Indiana, Studied physics and math
1951-1954 Marquette University, Milwaukee, Wisconsin
B.S. degree in physics and math
1955--University of Texas, El Paso
Additional studies in math
1957-1961 Marquette University, Milwaukee, Wisconsin
Additional studies in math and physics
1963-1968 University of California, Santa Barbara
Additional studies in solid state physics, advanced math,
quantum mechanics

PROFESSIONAL MEMBERSHIP

American Association of Physicists in Medicine
Health Physics Society
American Physical Society
Institute for Electrical and Electronic Engineers
National Council on Radiation Protection

CERTIFICATIONS

American Board of Health Physics. Comprehensive by examination, 1960 to present.



BARBARA K. LUCAS

CAREER SUMMARY

Mrs. Lucas has over 30 years of experience in the nuclear industry and in regulatory programs. Her experience includes laboratory management, quality assurance/quality control, lecturer in physics at Oklahoma State University, environmental measurements, dosimetry, and radiation safety. Mrs. Lucas has a proven track record of managing projects, meeting deadlines, and ensuring comprehensive regulatory compliance.

Mrs. Lucas has served as a lecturer in physics at Oklahoma State University, was a consultant who operated field and laboratory measurement systems at the Ottawa, Illinois remediation site, served as Chief Chemist for Stillwater Sciences, L.L.C., Served as Radiation Safety Officer and Assistant Radiation Safety Officer, and Staff Scientist for Victoreen, Inc. for 9 ½ years, and managed radiation safety programs and dosimetry operations for Harshaw Chemical Company.

RSO EXPERIENCE

Mrs. Lucas is familiar with all aspects of regulations pertaining to radioactive materials, including 10 CFR. During her career, she successfully licensed and implemented a broad scope byproduct program, and successfully licensed and implemented a manufacturing and distribution program. Mrs. Lucas has used and is familiar with the operation of many types of radiation instrumentation, including GM, scintillation, TL dosimeters (LiF, CaF₂:Mn, Al₂O₃:C), ionization chambers, and proportional counters. Mrs. Lucas has performed analytical and field counting for alpha, beta, and gamma ray emitters.

Mrs. Lucas has been responsible for the oversight and use of radioactive materials/machines, including various sealed source gamma and beta emitters with emphasis on Co-60, Cs-137, Sr-90 (microCurie to kiloCurie activities), liquid radioactive sources of C-14, Cl-36, Ni-63, Am-241 in milliCurie quantities, and x-ray machines up to 250 KvP (glass and Be windows)

Mrs. Lucas has extensive experience in the shipment of radioactive materials. She was responsible for the development and implementation of shipping procedures to comply with DOT requirements by inspection. Mrs. Lucas is familiar with DOT and IATA requirements for radioactive materials.

Mrs. Lucas has performed decontamination and decommissioning work at several facilities in the following areas:

- Supervised the decontamination of 25,000 sq ft of factory space
- Assisted in decommissioning of a 179,000 sq ft factory

Mrs. Lucas was responsible for the development of radiation safety training materials and trained personnel in the use of a wide variety of radioactive sources (sealed and unsealed; alpha, beta, and gamma), survey equipment, x-ray machines, and irradiators.

Mrs. Lucas has experience in the performance of spectral analysis using multi-channel analyzers, and was responsible for performing evaluations using the half value layer



technique and the use of gold foils for calibration of neutron sources. In addition, Mrs. Lucas developed techniques for and performed various dosimetry measurements in the microRad to megaRad range.

STAFF SCIENTIST EXPERIENCE

Mrs. Lucas built a TLD program (materials and dosimeters) from nothing to a business unit generating in excess of one million dollars a year with little assistance from an engineering and development force. A grasp of basic mechanical engineering, design, and device fabrication principles was also brought to bear in areas other than TLD. In this capacity, Mrs. Lucas developed and successfully implemented a dosimeter standards program, developed manufacturing and test procedures and work instructions that were complete, understandable and convenient for everyday working, developed procedures for several projects which exceeded several hundred pages and were partitioned in such a way that a worker could find and use the applicable sections. In addition, Mrs. Lucas has significant experience in effectively supervising laboratory personnel in a reasonable manner, resulting in productivity with quality levels maintained.

Examples of other works include the development and implementation of a tutorial and directions for use of TLD measurement instruments (including principles, applications, and operations). Mrs. Lucas also developed and presented seminars in TLD materials and instrumentation. These programs included lectures and hands-on laboratory experimentation that was well received by all participants.

GENERAL EXPERIENCE

Mrs. Lucas has a thorough understanding and has implemented MIL-Q-9858A (military quality standard) in such a manner that the quality of U.S. Navy radiation dosimeters was greatly enhanced. In addition, Mrs. Lucas understands and has implemented a SPC (statistical process control) program.

Mrs. Lucas established an inorganic synthesis laboratory specializing in fluorides. This included establishing and performing procedures for synthesis using 48% hydrofluoric acid (HF) and training others to work with HF to the extent that there were no HF accidents over a ten year period. Mrs. Lucas has established, operated and maintained the following processes or equipment:

- gold plating
- nickel plating
- hydrogen furnaces
- hot pressing equipment
- vacuum pumps
- spot welding equipment
- glass working equipment
- spectrophotometers
- water purification systems
- vacuum furnaces



Another pertinent accomplishment was the establishment of specialized crystal growing procedures, and the organized move of an 8 person production/testing department such that down time was limited to just 30 minutes.

EDUCATION

B.S., Chemistry, John Carroll University, Cleveland, Ohio (1975)

PUBLICATIONS

Published papers, lists of lectures, and books available on request.



HARRY J. NEWMAN, CHP

Summary of Experience

Mr. Newman is a Certified Health Physicist and is a partner at Lucas Newman Science & Technologies, Inc., a firm specializing in radiation detection systems development, laboratory analysis, consulting, and health physics solutions. Mr. Newman has over 25 years of experience in the nuclear industry and in regulatory programs. His experience includes Project Management and Direction, Decontamination and Decommissioning, Groundwater Remediation, Low-Level Radioactive Waste Management, Radiation Safety, Hazardous Waste Management, Mixed Waste Management, NORM Waste Management, Waste Processing/Minimization, Regulatory Compliance Auditing, Environmental Monitoring, Nuclear Facility Licensing, Dose Modeling, Criticality Assessment, Technical Support, Facility Operations, Emergency Management and Response, Regulatory Compliance, Technical Interface with Regulators, Quality Assurance Systems Management, and Laboratory Analysis. Mr. Newman is familiar with all phases of facility compliance, including NRC, State, OSHA, EPA, and DOT regulations, as well as their history and bases. Mr. Newman also has considerable experience with computer models used for modeling and demonstration of regulatory compliance (MCNP, RESRAD, COMPLY, Microshield, CAP88PC, RADON, VARSKIN, D and D, HOTSPOT, Crystal Ball, etc.), as well as the application of Monte Carlo techniques to determine impacts and/or dose from environmental pathways or nuclear systems.

PROFESSIONAL EXPERIENCE

2000-present: Lucas Newman Science & Technologies, Inc. Louisville, KY

- Partner. The firm, headquartered in Stillwater, OK, specializes in radiation detection systems development, laboratory analysis, consulting, and health physics solutions.
- Radiation Safety Officer for Bretagne GP. Same duties as below.

1996-2006: NEXTEP Environmental, Inc. Louisville, KY

- Principal and Technical Director. In this capacity, Mr. Newman served as the focal point for all technical work produced by the Company, ensuring technical quality and correctness in calculations. Mr. Newman directed technical staff in the production of technical documentation necessary to support all aspects of decommissioning, operations, health and safety, or regulatory compliance.
- Corporate Radiation Safety Officer / Health and Safety Officer. Mr. Newman oversaw all aspects of company operations dealing with safety and regulatory compliance, including compliance with federal, state and local radiological and occupational safety regulations, as well as compliance with all licenses and permits.
- Cushing Facility Health Physics Laboratory Quality Assurance Manager. In this capacity, Mr. Newman ensured that laboratory operations were performed in accordance with the Kerr-McGee Quality Assurance Plan (QAP) and Health Physics Laboratory Quality Assurance Project Plan (QAP) through the performance of audits and surveillances.
- Project Director for the Mallinckrodt C-T Phase I Project, St. Louis, Missouri. Successfully demolished, decontaminated, decommissioned, and performed all aspects of Final Status Survey for the Mallinckrodt Columbium-Tantalum facilities contaminated with uranium and thorium and daughters. The \$5MM project involved the management of operations, health physics, subcontractor (demolition and waste loadout/transportation), as well as final status survey project personnel. Project completed on time and within budget.



- Provided technical support (Health Physics) for the Cimarron Corporation facility located in Oklahoma. Same duties as below.
- Radiation Safety Officer for Bretagne GP, an oil and gas company. Responsible for NORM training programs, development of survey programs, review of survey data, technical support, dose assessments, modeling, and regulatory compliance/interface.
- Project Manager involved with the Cushing facility located in Oklahoma. Same duties as below.
- Provided technical services and MARSSIM compliance assistance related to the Kerr-McGee West Chicago Facility located in Illinois. This facility processed thorium source material. Performed radiological modeling using MARSSIM techniques and developed plans for the estimation and minimization of waste volumes.
- Performed investigations involving naturally occurring radioactive materials (NORM) at scrap metal recycling and industrial facilities. Addressed waste disposition issues.

1994-1996: Chase Environmental Group, Inc.

Louisville, KY

- Principal. Provided technical support (Health Physics) for the Cimarron Corporation facility located in Oklahoma. The facility was operated from 1966 to 1975 for the manufacture of enriched uranium and mixed-oxide reactor fuels for U.S. government and industry use. Responsible for the preparation of license submittals to the U.S. NRC for Special Nuclear Materials use. The license submittals included the preparation of a comprehensive Radiation Protection Plan to address all phases of facility decommissioning, including regulatory compliance, health physics, personnel and environmental monitoring, surveys, unconditional release of materials, etc. Also prepared U.S. NRC Byproduct license submittals for instrument calibration sources. Managed the preparation and submittal of numerous decommissioning plans, characterization plans and reports, final status survey plans and reports, groundwater characterization studies and monitoring plans, and environmental monitoring reports. Responsible for cost savings through the development and implementation of novel cost-saving methods for addressing contamination in soils and concrete media. Performed extensive radiological pathways modeling using modeling software and innovative health physics techniques incorporating ICRP 30 and ICRP 67 methodologies.
- Project Manager involved with the Cushing facility located in Oklahoma. This facility was operated from 1963 to 1966 for the processing of uranium and thorium for use as fuels and other products. Prepared and managed regulatory compliance audits for the Kerr-McGee Corporate Safety & Environmental Affairs Division to verify compliance with applicable regulations.
- Performed numerous investigations involving naturally occurring radioactive materials (NORM) at scrap metal recycling and industrial facilities. Addressed waste disposition issues.

1993-1994: Scientific Ecology Group, Inc.

Oak Ridge, TN

- Project Manager responsible for the preparation of comprehensive license submittals for Scientific Ecology Group's Oak Ridge waste processing facilities. Facilities and activities addressed in the license included volume reduction, sorting, metals processing/recycling, physical and chemical decontamination processes, waste incineration, resin processing, soil washing, mixed-waste processing, waste shipment, radiological controls, and regulatory compliance.
- Project Manager responsible for the preparation of a license submittal to the State of Washington for a comprehensive radioactive/mixed waste treatment and volume reduction facility. The preparation of this license application required design of facilities, estimation of types and quantities of materials, development of risk estimates, and included numerous



interactions with State of Washington regulatory personnel and recognition of all applicable rules and regulations.

- Project Manager responsible for the implementation of revised 10 CFR 20 regulations for the Oak Ridge, Tennessee waste processing facility. This project involved the preparation of a comprehensive Radiation Protection Plan and hundreds of procedures. Mr. Newman also managed the development and implementation of a Radiological Access Management System (RAMS) database and software. This automated database, linking two SEG Oak Ridge facilities, was developed within a strict timeframe of 6 months and was fully implemented prior to the January 1, 1994 deadline for 10 CFR 20. The database is used for access control, tracking of doses and training requirements, bioassays, radiation work permits, respiratory protection requirements, internal dose assignments, NRC form 4 and 5 generation, ALARA program management, dosimetry, and equipment issue.

1989-1993: US Ecology, Inc.

Louisville, KY

- Assisted with the licensing of a Low-Level Radioactive Waste Disposal Facility near Ward Valley, California. Responsible for coordinating the preparation and submittal of the pre-operational Environmental Report detailing the current environmental status of the Ward Valley site. Presented environmental monitoring results to State of California regulatory personnel, and developed a comprehensive environmental monitoring program for the facility. Prepared the license submittal for the proposed site, and addressed regulatory interrogatories.
- Assisted in the preparation and assembly of a license renewal application for the US Ecology, Inc., Richland, Washington Low-Level Radioactive Waste Disposal Facility. This project included numerous regulatory interface meetings and preparation and submission of all required licensing documents.
- Designed a radon barrier cap to support the license application for a proposed US Ecology, Inc. 11(e)2 mill tailings facility in Richland, Washington. Design of the radon barrier involved the use of the RADON computer code as specified by US NRC Regulatory Guide 3.64.
- Initially Deputy Corporate and then Acting Corporate Radiological Control and Safety Officer responsible for corporate oversight and regulatory compliance over US Ecology low level radioactive waste disposal facilities located in Richland, Washington and Beatty, Nevada, as well as low-level radioactive waste brokerage operations located in Pleasanton, California. Also responsible for compliance with settlement agreement requirements for monitoring and maintenance at the closed Sheffield, Illinois waste disposal facility.

1984-1989: North Carolina Division of Radiation Safety

Raleigh, North Carolina

- Nuclear/Environmental Engineer. Responsible for managing the management, review and analysis of the statewide database compiled from environmental sampling performed at nuclear facilities and in environs throughout North Carolina. Reported activities in an annual report published for use by the public and licensees for the purposes of defining environmental radioactivity in the State. Responsibilities also included the use of sophisticated computer equipment and software models utilized for the integration of laboratory equipment to allow for automated data acquisition and report generation. Mr. Newman also designed comprehensive environmental sampling programs for nuclear facilities and conducted numerous seminars and meetings to provide radiation protection education to the public.

1980-1984: University of Florida

Gainesville, Florida

- Health Physicist with the Department of Environmental Health and Safety. Provided health physics services to the University's research programs and Shands Hospital, developed and revised standard operating procedures for users of radioactive materials, and was responsible



for personnel monitoring. Performed audits of the Crystal River Nuclear Power Plant environmental monitoring program, provided instruction to graduate students in health physics courses, and was responsible for the management of radioactive waste generated during research and hospital medical procedures.

EDUCATION AND CERTIFICATION

- MS, Environmental Engineering (Health Physics), University of North Carolina-Chapel Hill, 1993.
- BS, Nuclear Engineering, University of Florida, Gainesville, FL, 1983.
- Certified Health Physicist (CHP), Comprehensive certification by the American Board of Health Physics (ABHP), 1992, recertified 1996, 2000, and 2004.



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BUSINESS CARDS

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