UNC MINING AND MILLING



Division of United Nuclear Corporation P.O. Box 3951 A UNC RESOURCES Company

Albuquerque, New Mexico 87190

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Telephone 505/265 4421 505/884-1869

December 8, 1980

Cubia L. Clayton NM Environmental Improvement Division P. O. Box 968 Santa Fe, New Mexico 87503

Dear Mr. Clayton:

United Nuclear Corporation has been providing the Environmental Improvement Division, the State Engineers Office and the Nuclear Regulatory Commission with the weekly reports on the Northeast Churchrock Tailings Impoundment Area. This complies with the NMEID letters dated October 23 and 31, 1979, the NRC order dated October 26, 1979, and the State Engineer's letter dated February 29, 1980. Data reported has been compiled by Science Applications, Inc. and UNC personnel with all reports being certified by Mr. Donald G. Silva, P.E., of Science Applications, Inc. (New Mexico Registration No. 6754).

In an effort to reduce costs associated with monitoring and reporting, United Nuclear Corporation has increased its staff with qualified personnel so that all data can be collected, recorded and certified by UNC personnel. Mr. Satya Deb Misra has had his credentials reviewed by the New Mexico State Board of Registration for Professional Engineers and Land Surveyors, and is certified in New Mexico (Registration No. 7621). A copy of Mr. Misra's resume and certification is enclosed.

United Nuclear Corporation requests your approval of the proposal to prepare, report and certify the Northeast Churchrock Tailings Impoundment Weekly Report using our own personnel. Thank you for your consideration in this matter.

Sincerely,

Thomas M. Hill

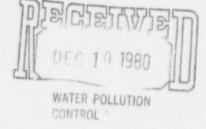
Director, Tailings Management

TMH: jb

Enclosures

cc: S. D. Misra

D. G. Silva



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NEW MEXICO STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS This is to Certify That

Countersigned: Santa Fe, N.M. 1.1/25/80....

CERTIFICATE NO

DEC 10 1980

WATER POLLUTION CONTROL



RESUME Deb Misra 1008-A East Green Avenue Mining Engineer Gallup, New Mexico 87301 Telephone: (505) 722-6651, ext. 618 (days) (505) 722-2483 (evenings) PERSONAL DATA Born September 10, 1942; U. S. citizen; married, one child; excellent health; wife - instructor in medical college; excellent references available EXPERIENCE DETAILS September, 1980 - present: UNC Mining and Milling, Northeast Church Rock, P. O. Drawer QQ, Gallup, New Mexico 87501. SENIOR ENGINEER -- Responsible for in-house design, construction, and start-up of facilities related to mill tailings and mine waste disposal, i.e., tailings dams, below grade trenches, plastic-lined evaporation ponds, water diversion channels, and other mine facilities. Duties include engineering feasibility studies, economic analysis, conceptual design, siting studies, equipment selection and acquisition, direction and supervision of various works related to construction, monitoring, surveying, and general tailings managements. The assignments involve various aspects of engineering including geology, groundwater hydrology, well hydraulics, soil mechanics, slope stability analysis, probable maximum flood evaluation, environmental engineering, industrial engineering, and computer application. -- Frequent involvement as consultant in underground mining and related support activities, mining reserve evaluation and characterization, tailings fluid treatment, sand filling of underground mine, ventilation, reclamation, and other general engineering works. -- Interfacing with the consultants, specialized contractors, and government regulatory agencies.

August, 1976 - August, 1980: Southern Illinois University, Carbondale, IL 62901. INSTRUCTOR of Mining Technology (Dept. of Technology); RESEARCHER (Dept. of Mining Engineering); and CONSULTANT (U.S. Dept. of Energy).

-- Developed and started a new Mining Technology program and taught

all the mining courses.

--Actively praticipated in research activities (both funded and self-imposed) in the areas of Underground Coal Gassification, Mine Ventilation, Computer Application, desulfurization of coal by froth flotation, study and development of pinning concept of roof bolting, and analysis of U.S./USSR test data on magnetohydrodynamics.

--Responsible for developing research proposals, helping graduate students in developing their thesis proposal and planning, organizing and monitoring their actual research work, and writing technical

reports.

--Also interfaced with the government agencies, professional people, academicians and local coal industry, and was involved in consulting work related to all phases of coal mining and processing with local coal companies and various U.S. Dept. of Energy's multi-million dollar contracted projects to develop new surface coal mining methods and equipment.

February, 1974 - August, 1976: Pennsylvania Dept. of Environmental Resources (formerly Dept. of Mines), Div. of Mine Area Restoration, Wilkes-Barre, PA 18703. MINING ENGINEER/RESIDENT ENGINEER. -- Independently handled various multi-million dollar mine area restoration projects (i.e., backfilling of mine voids, surface mine reclamation, extinguishment of mine and refuse dump fires, acid mine drainage control, sub-surface investigation, environmental impact studies, etc.) in all entirety. Responsibility included complaint investigation, conception of projects, procuring government funds, preparation of project specifications, drawings and bid document, selection of contractors, control of contractors' work for compliance with the specifications, estimation of progress of work for payment, supervision of state employees including professional, supervisory, and support staff, and writing technical reports. January, 1972 - February, 1974: Graduate study and summer experiences in various coal and metal mines of U.S. and Canada. Exposure to current mining practices, methods, and problem areas. July, 1964 - January, 1972: Andrew Yule and Coal Company (a progressive British coal mining firm in India, producing 10 million tons of coal per year). Positions held - MINING ENGINEER, RESEARCH ENGINEER, SAFETY ENGINEER, ASSISTANT MINE SUPERINTENDENT & MINE SUPERINTENDENT. -- Handled assignments in mine reserve evaluation, feasibility studies, equipment selection, complete planning, design and layout of strip mines and underground coal mines, including Longwall operations, complete mine development and mine expansion projects and construction works, productivity studies and solution of problems related to roof control, subsidence, coal dust, methane drainage, ventilation, material handling, and coal preparation. -- Designed, installed, and controlled the complete mine ventilation systems of three large, deep, gassy coal mines and solved day-to-day problems related to ventilation; formed the safety department of a three-seam coal mining complex and successfully improved the safety standard, especially by reducing underground accidents. -- As Mine Superintendent, directed and controlled all mining activities including surface and underground production, engineering and maintenance, expansion planning, labor relation, statutory activities, cost control, manpower development, purchasing, and various other administration works. July, 1960 - July, 1964: Various coal and metal mines in India (summers only). MINING TRAINEE (mining methods and support activities, coal and mineral processing). EDUCATION B.S. (Mining Engineering), Calcutta University, India, 1964. Minor--Electrical and Mechanical Engineering. Ranked 2nd among 27 students. Equivalent G.P.A. - 4. M.S. (Mining Engineering), Columbia University, New York, 1979. Minor --Industrial Engineering. G.P.A. - 3.72. (Substitute for) Thesis -Safety and Productivity of Underground U.S. Coal Mines in 1970's. Ph.D. (Interdisciplinary area), Southern Illinois University, Carbondale, III. Research interest: advanced methods and equipment for coal mining and utilization, Magnetohydrodynamics. Current G.P.A. - 3.93. Course work and part of dissertation research completed. -2EDUCATION (cont.)

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Academic background covers all aspects of coal and metal mining and processing, Industrial Engineering, Operations Research, computer application, environmental problems, material handling, mineral economics, hydrology, geology, mine safety, surveying, mine management, reaction kinetics, molecular science, higher mathematics, ground control, and soil mechanics.

PROFESSIONAL LICENSES, CERTIFICATES, AND SPECIAL TRAINING

Registered Professional Engineer, Pennsylvania and New Mexico.
First Class Mine Manager (Illinois and India), Mine Foreman (W. Virginia)
Surface Mine Manager (Illinois), Registered Mine Surveyor (India)
Notary Public (Jackson County, Illinois)
Certified MSHA Instructor

Special training: supervisory development; time and method study; first aid; fire fighting, rescue and accident prevention; ground control; erosion and sedimentation control; grievance handling; environmental protection; radiation control; uranium tailings management; Fortran programming.

MEMBERSHIPS

Society of Mining Engineers of A.I.M.E.
National Society of Professional Engineers
Sigma Xi (prospective member)
Various other engineering, cultural, humane, and religious societies