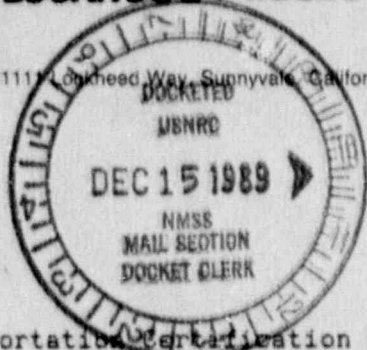


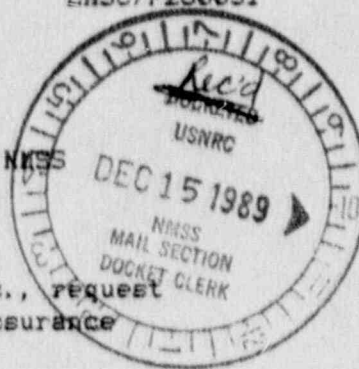
**Lockheed Missiles & Space Company, Inc.**

1111 Lockheed Way, Sunnyvale, California 94089-3504



December 5, 1989

In reply refer to LMSC/F280051



Transportation Certification Branch  
Division of Fuel Cycle and Material Safety, NMSS  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

SUBJ: Lockheed Missiles & Space Company, Inc., request  
for an Amendment for LMSC's Quality Assurance  
Program No. 0159

REF: Code of Federal Regulations Title 10, Part 71

- ENCL: 1) Resume for D. P. Mercado
- 2) Resume, Training and Experience Record for S. R. Souza

Gentlemen:

Mr. Art Hammons, Radiation Control Officer for Lockheed Missiles & Space Company, Inc., will be retiring as of January 31, 1990. Mr. Donald P. Mercado has been designated the new Radiation Control Officer for LMSC effective January 1, 1990.

Mr. Mercado has been employed at LMSC for approximately 6 years. During that time Mr. Mercado has completed his Masters Degree at San Jose State University in Health Physics. Please refer to Mr. Mercado's attached updated resume. Mr. Mercado is currently designated as the alternate Radiation Control Officer on LMSC's Quality Assurance Program approval for Radioactive Material Packages No. 0159.

Mr. Steve Souza has been designated the new alternate Radiation Control Officer for LMSC effective January 1, 1990.

Mr. Souza has been employed at LMSC for a period of four (4) years. Mr. Souza is currently attending San Jose State University on a part time basis working towards a Bachelor of Science degree in Health Sciences. Please refer to Mr. Souza's Training and Experience record and his updated resume.

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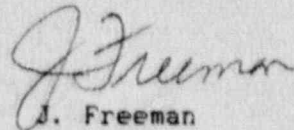
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Lockheed Missiles & Space Company, Inc., requests that our Quality Assurance Program for Radioactive Material Packages No. 0159, be amended to reflect these changes. Lockheed Missiles & Space Company, Inc. would like to express our thanks to the employees of the Nuclear Regulatory Commission, for their support, service, and professionalism over the past thirty-one years.

Sincerely,



J. Freeman  
Executive Vice President  
Finance/Administration

JF:AH:lr

RESUME

DONALD PAUL MERCADO

PROFESSIONAL EXPERIENCE

LOCKHEED MISSILES & SPACE CO., INC.  
Sunnyvale, CA

Alternate Radiation Control Officer

2/84 TO Present

Administer all duties associated with maintaining a broad scope and several limited scope by-product material licenses, 100 registered radiation machines, 250 lasers, radio frequency generating machines, infrared and ultraviolet sources. Evaluate radiation facilities for compliance with Federal, State, Local and Company regulations. Prepare applications to regulatory agencies for use of complex sources of radiation. Administer personal dosimetry, instrument calibration, leak testing and training programs with associated documentation. Develop and maintain computer programs for tracking radiation sources. Develop and review company wide management policies, procedures and safety standards pertaining to all forms of radiation. Investigate unusual incidents involving ionizing and nonionizing radiation. Advise management and radiation source users as to the regulatory requirements pertaining to the procurement, use, transport and disposal of radioactive material.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH  
Lansing, MI

Health Physicist

3/81 TO 2/84

Write license for the use of naturally-occurring and accelerator-produced radioactive material (NARM) and the more complex applications for registration of x-ray sources pursuant to the State Ionizing Radiation Rules. Process registration applications for routine, special, and complex uses of sources of ionizing radiation. Prepare, evaluate and update standard licensing conditions, form letters, instructions, guidelines, and procedures relating to the licensing and registration process. Review and propose amendments to rules and statutes pertaining to licensing and registration.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH  
Lansing, MI

Health Physicist

11/78 TO 3/81

Conduct regulatory compliance investigations of x-ray machines, radioactive material and other sources of ionizing radiation used in hospitals, offices and clinics of licensed members of the healing arts, education and research institutions, and industrial facilities. Evaluation of radiation shielding, radiation safety equipment, procedures and policies, and consultation on radiation safety matters.



RESUME  
DONALD PAUL MERCADO  
Page 2

ST. MARY'S CATHEDRAL HIGH SCHOOL  
Saginaw, MI

Teacher

1/76 TO 3/81

Taught high school level physics, chemistry, trigonometry, physical science and consumer mathematics.

EDUCATION

San Jose State University, San Jose, CA. Master of Science Degree 1988.  
(Specialization in Radiological Health Physics)

Western Michigan University, Kalamazoo, MI. Bachelor of Science Degree 1975.  
(Physics; Mathematics)

POST GRADUATE EDUCATION:

Massachusetts Institute of Technology, "Non-Ionizing Radiations: Biophysical and Biological Basis, Applications and Hazards in Medicine and Industry," 1984.

Laser Institute of America, "Advanced Laser Safety Officer," 1987.

Department of Energy, "Transportation of Radioactive Material," 1985-86.

Masters of Business Administration Program, 1983.

Nuclear Regulatory Commission, "Orientation Course in Regulatory Practices and Procedures," 1980.

RESUME

STEVEN R. SOUZA

PROFESSIONAL EXPERIENCE

LOCKHEED MISSILES & SPACE CO., INC.  
Sunnyvale, CA

Safety & Environmental Health Engineer 7/87 TO Present

Currently a Safety Engineer in the Radiation Control Program. Primary responsibilities include the dosimetry program, occupational exposure records, instrument calibrations, and employee training programs. Perform safety surveys on X-ray and laser systems, and maintain accountability records for receipt, use, transfer, and disposal of radioactive material.

Under the direction of the Radiation Control Officer the Safety Engineer responds to requests from line organizations for a wide range of safety support in such areas as facility modifications, surveys, hazard evaluation and control. Assist the Radiation Control Officer in the preparation and enforcement of LMSC Safety Standards as they relate to radiation control, and participate in the administration of a broadscope license program as a member of the Radiation Control Committee.

Vehicle Planning/Test Coordinator 7/85 TO 7/87

In the Irradiated Materials Facility the Planning/Test Coordinator coordinates the testing of radioactive hardware specimens recovered from underground nuclear testing. Activities include radiation surveys, contamination control, and evaluating the safety aspects of test programs. Maintain accountability records on radioactive materials and classified hardware, prepare facility operating procedures and requirements for the checkout of Trident II test missiles.

MEDI-PHYSICS, INC.  
Emeryville, CA

Radiation Safety Officer 8/82 TO 7/85

Responsible for all phases of facility health physics programs for a radiopharmaceutical production and research facility, including a 22 MeV cyclotron and associated laboratories. Radiation Safety Officer extended into areas of general plant safety programs, employee training, plant maintenance and security, and maintaining programs to demonstrate compliance with OSHA and California Radiation Control Regulations.

PROFESSIONAL EXPERIENCE (continued)

Health Physics Technician I & II

4/79 TO 8/82

Assisted Radiation Safety Officer in maintenance of radiation and general safety programs. Performed routine data collection and analysis of surface contamination, radiation levels, air sampling, and bioassay measurements. Performed calibrations on health physics instrumentation including portable G.M. and Ion chamber survey meters, sodium iodide and germanium lithium detection systems using multi-channel analyzers. Maintained programs for employee training, waste disposal, receipt and transfer of radioactive material.

Radioactive Production Technician

5/78 TO 4/79

Produced cyclotron targets for radioisotope production, processed bombarded targets for isotope extractions, and performed formulation and dispensing of radiopharmaceutical products. This position involved fume-hood and glovebox work, and some radiochemistry.

EDUCATION

San Jose State University, San Jose, CA. Health Science B.S.  
(with a concentration in occupational health education). In process.

Chabot College, Hayward, CA. Radiation Technology, A.A. 1979

Rockwell International, Canoga Park, CA. "Radiation Protection Technology."  
1981

PROFESSIONAL CERTIFICATIONS/AFFILIATIONS

National Registry of Radiologic Protection Technologists, certified 1984.

Health Physics Society, member of national and local chapters.

California Radioactive Materials Management Forum, active member, former member as a Corporate Representative for Medi-Physics, Inc.



# Radiation Experience Record

NAME Steven R. Souza ORGANIZATION CODE 85-76 (IMF)

1. TYPE OF TRAINING	WHERE TRAINED	DURATION OF TRAINING	ON THE JOB (CHECK ONE)	FORMAL COURSE
b. PRINCIPLES OF RADIATION PROTECTION	Chabot College Hayward, CA	3 Years	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
b. RADIOACTIVITY MEASUREMENT TECHNIQUES	Medi-Physics Inc. 5855 Christie Ave. Emeryville, CA	5 Years	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
c. MATHEMATICS BASIC TO THE USE OF RADIOACTIVITY	Chabot College Hayward, CA	2 Years	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
d. BIOLOGICAL EFFECTS OF RADIATION	Chabot College Hayward, CA	1 Year	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

**2. EXPERIENCE WITH RADIATION (ACTUAL USE OF RADIOISOTOPES OR EQUIVALENT EXPERIENCE)**

ISOTOPE	MAX. AMOUNT	WHERE EXPERIENCE WAS GAINED	DURATION OF EXPERIENCE	TYPE OF USE
I-123	1 Ci	Medi-Physics Inc. 5855 Christie Ave. Emeryville, CA 94068	7 Years	radiopharmaceutical production
In-111	5 Ci		3 Years	research & development
Ga-67	10 Ci			
Xe-133	30 Ci			
I-125	100 Ci			
Tc-99m	100 Ci			
Cs-137	120 Ci	5 Years	instrument calibration	

**3. RADIATION DETECTION INSTRUMENTS USED:**

TYPE OF INSTRUMENT	RADIATION DETECTED	USE (MONITORING, SURVEYING, MEASURING)
Eberline E-520 G.M. DETECTOR	Beta, Gamma	Monitoring and surveying
Ludlum Model 2 ION CHAMBER DETECTORS		
Victoreen Model 740 ION CHAMBER DETECTORS	Gamma	Analytical Measurements
Victoreen Model 497 NaI DETECTORS		
Bicron 3M3 DETECTORS		
Ludlum 44-3, 44-2 DETECTORS		
Canberra Ge (Li) DETECTOR		

Canberra 8100 MCA  
Miscellaneous scalars and rate meters  
Date 4-3-86 Signature Steven R. Souza