

November 5, 2010

Director, Office of Nuclear Material Safety and  
Safeguards or Director, Division of Security Policy,  
Office of Nuclear Security and Incident Response  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555-0001

Attention: Document Control Desk

Subject: Request for SNM License for DHS testing

Attachment(s): (1) Passport Systems, Inc. License Application form 313, w/check  
(2) Passport Facility  
(3) Pu Source Assembly Drawing  
(4) Pu Manufacturing Plan  
(5) Pu Radiation Survey  
(6) Pu Assembly Specification  
(7) Pu Helium Leak Test Results  
(8) PNNL isotope summary  
(9) HEU Engineering drawing  
(10) HEU Engineering analysis  
(11) HEU ANSI Certificate  
(12) HEU Project Report  
(13) Nuclear Material Control Procedures

Dear Sir or Madam:

Passport Systems, Inc. (Passport) hereby submits to The United States Nuclear Regulatory Commission (NRC) for its review and approval the attached license application (original + one copy) for possession and use of SNM sources. Department of Homeland Security (DHS) requires us to have access to these sources for the conduct of a research program, funded by DHS, (i.e., Contract No. HSHQDC-08-C-00124) to develop new technologies to detect special nuclear materials in cargo containers. The SNM sources include: a Pu metal source produced by Pacific Northwest National Laboratory (PNNL), a HEU metal source, LEU metal sources and Uranium Oxides (UO<sub>2</sub> and U<sub>3</sub>O<sub>8</sub>). For reference purposes, Passport's Radioactive Materials license number with The Massachusetts Department of Public Health, Radiation Control Program Office is #55-0585.

The sources will be secured in a restricted area in our facilities. A schematic of our facility is shown in Attachment 2. The location of the storage safe or other locked container (e.g. SentrySafe fireproof safe,

55 gallon drum) is shown in red on page 2. The storage container will be secured within a locked area, which only authorized users have access to. Only persons trained on radiation source handling procedures and approved by the RSO will have access to the sources, which will be restricted to use in our restricted research areas. When in use for testing, the sources will be in a locked radiation vault to which only authorized users have access. Passport will use the same monitoring and handling techniques prescribed in our Massachusetts License (#55-0585) and which are summarized in Attachment 1. The control procedures and checklists specific to SNM are provided in Attachment 13.

Enclosed are a copy of DHS application for NRC Safety Evaluation on the Pu source, and an extensive description of the source housing as well as a PNNL summary of the isotope content of the source (Attachments 3-8). Enclosed also are descriptions of the HEU source (Attachments 9-12).

Please do not hesitate to contact our Radiation Safety Officer, Dr. Steve Korbly at (978) 263-9900, ext. 2206 or Radiation Safety Consultant, F.X. Massé Associates, at (978) 283-4888 if further information is required.

Yours truly,



Paul H. Johnson

Vice President

Contracts and Administration

Cc: S. Korbly, Radiation Safety Officer  
Passport Systems, Inc.