

Transportation Security Laboratory  
Wm. J. Hughes Technical Center  
Building 315  
Atlantic City IAP, NJ 08405



**Homeland  
Security**

July 20, 2021

Licensing Assistance Team  
Division of Nuclear Materials Safety  
U.S. Nuclear Regulatory Commission, Region 1  
2100 Renaissance Boulevard, Suite 100  
King of Prussia, Pennsylvania 19406-2713

Re: License Number: 29-13141-06  
Docket Number: 030-30808

Dear Sir/Madam,

The Department of Homeland Security Transportation Security Laboratory (TSL) would like to request an amendment to license number 29-13141-06 as follows:

Section 11: Remove Sheldon Brunk, Ph. D. as an authorized user and add Jagdeep Talwar. John Brady, Ph.D. and Polly Gongwer, Ph.D. shall remain as authorized users. To serve in this role, Jagdeep Talwar has a combination of education and experience and has received training in radiation safety (documentation and resume attached) and will be included in future annual refresher training.

If you have questions or need additional information, please contact Colin O'Connor, Safety Officer at (609) 813-2820 or by email at [Colin.OConnor@ST.DHS.GOV](mailto:Colin.OConnor@ST.DHS.GOV).

Sincerely,

A handwritten signature in black ink, appearing to read "Colin O'Connor", with a long, sweeping underline.

Colin O'Connor  
Safety Officer  
Transportation Security Laboratory

Enclosure(s)  
Jagdeep Talwar Resume  
Jagdeep Talwar Radiation Training documentation

REC RG 1 07 30 21 PM 12:49



**APPLICATION FOR  
 MATERIALS LICENSE**

Estimated burden per response to comply with this mandatory collection request: 4.3 hours. Submittal of the application is necessary to determine that the applicant is qualified and that adequate procedures exist to protect the public health and safety. Send comments regarding burden estimate to the Information Services Branch (T-6 A10M), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by e-mail to [Infocollects.Resource@nrc.gov](mailto:Infocollects.Resource@nrc.gov), and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0120), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

**INSTRUCTIONS: SEE THE CURRENT VOLUMES OF THE NUREG-1556 TECHNICAL REPORT SERIES ("CONSOLIDATED GUIDANCE ABOUT MATERIALS LICENSES") FOR DETAILED INSTRUCTIONS FOR COMPLETING THIS FORM: <http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1556/>. SEND TWO COPIES OF THE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW.**

**APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:**

MATERIALS SAFETY LICENSING BRANCH  
 DIVISION OF MATERIAL SAFETY, STATE, TRIBAL AND RULEMAKING PROGRAMS  
 OFFICE OF NUCLEAR MATERIALS SAFETY AND SAFEGUARDS  
 U.S. NUCLEAR REGULATORY COMMISSION  
 WASHINGTON, DC 20555-0001

**ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:**

**IF YOU ARE LOCATED IN:**

ALABAMA, CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, FLORIDA,  
 GEORGIA, KENTUCKY, MAINE, MARYLAND, MASSACHUSETTS, NEW HAMPSHIRE,  
 NEW JERSEY, NEW YORK, NORTH CAROLINA, PENNSYLVANIA, PUERTO RICO,  
 RHODE ISLAND, SOUTH CAROLINA, TENNESSEE, VERMONT, VIRGINIA, VIRGIN  
 ISLANDS, OR WEST VIRGINIA,

**SEND APPLICATIONS TO:**

LICENSING ASSISTANCE TEAM  
 DIVISION OF NUCLEAR MATERIALS SAFETY  
 U.S. NUCLEAR REGULATORY COMMISSION, REGION I  
 2100 RENAISSANCE BOULEVARD, SUITE 100  
 KING OF PRUSSIA, PA 19406-2713

**IF YOU ARE LOCATED IN:**

**ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND APPLICATIONS TO:**

MATERIALS LICENSING BRANCH  
 U.S. NUCLEAR REGULATORY COMMISSION, REGION III  
 2443 WARRENVILLE ROAD, SUITE 210  
 LISLE, IL 60532-4352

**IF YOU ARE LOCATED IN:**

ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANSAS,  
 LOUISIANA, MISSISSIPPI, MONTANA, NEBRASKA, NEVADA, NEW MEXICO, NORTH  
 DAKOTA, OKLAHOMA, OREGON, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA, TEXAS,  
 UTAH, WASHINGTON, OR WYOMING,

**SEND APPLICATIONS TO:**

NUCLEAR MATERIALS LICENSING BRANCH  
 U.S. NUCLEAR REGULATORY COMMISSION, REGION IV  
 1600 E. LAMAR BOULEVARD  
 ARLINGTON, TX 76011-4511

**PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR REGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED MATERIAL IN STATES SUBJECT TO U.S. NUCLEAR REGULATORY COMMISSION JURISDICTIONS.**

1. THIS IS AN APPLICATION FOR (Check appropriate item)

A. NEW LICENSE

B. AMENDMENT TO LICENSE NUMBER 29-13141-06

C. RENEWAL OF LICENSE NUMBER \_\_\_\_\_

2. NAME AND MAILING ADDRESS OF APPLICANT (Include zip code)

Colin O'Connor  
 Building 315, Transportation Security Laboratory  
 William J. Hughes Technical Center  
 Atlantic City Int'l Airport, NJ 08405

3. ADDRESS WHERE LICENSED MATERIALS WILL BE USED OR POSSESSED

Transportation Security Laboratory  
 William J. Hughes Technical Center  
 Atlantic City International Airport, NJ 08405

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Colin O'Connor

BUSINESS TELEPHONE NUMBER 609-813-2820	BUSINESS CELLULAR TELEPHONE NUMBER
BUSINESS E-MAIL ADDRESS colin.oconnor@st.dhs.gov	

SUBMIT ITEMS 5 THROUGH 11 ON 8-1/2 X 11" PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE.

5. RADIOACTIVE MATERIAL

a. Element and mass number; b. chemical and/or physical form; and c. maximum amount which will be possessed at any one time.

8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.

10. RADIATION SAFETY PROGRAM.

6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED.

7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING AND EXPERIENCE.

9. FACILITIES AND EQUIPMENT.

11. WASTE MANAGEMENT.

12. LICENSE FEES (Fees required only for new applications, with few exceptions\*)  
 (See 10 CFR 170 and Section 170.31)  
 \*Amendments/Renewals that increase the scope of the existing license to a new or higher fee category will require a fee.

FEE CATEGORY	AMOUNT ENCLOSED \$
--------------	--------------------

**PER THE DEBT COLLECTION IMPROVEMENT ACT OF 1996 (PUBLIC LAW 104-134), YOU ARE REQUIRED TO PROVIDE YOUR TAXPAYER IDENTIFICATION NUMBER. PROVIDE THIS INFORMATION BY COMPLETING NRC FORM 531: <https://www.nrc.gov/reading-rm/doc-collections/forms/nrc531info.html>**

13. CERTIFICATION. (Must be completed by applicant) THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING UPON THE APPLICANT.

THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34, 35, 36, 37, 39, AND 40, AND THAT ALL INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF.

WARNING: 18 U.S.C. SECTION 1001 ACT OF JUNE 25, 1948 62 STAT. 749 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.

CERTIFYING OFFICER -- TYPED/PRINTED NAME AND TITLE Colin O'Connor Safety Officer	SIGNATURE 	DATE 7/20/21
--	---------------	-----------------

**FOR NRC USE ONLY**

TYPE OF FEE	FEE LOG	FEE CATEGORY	AMOUNT RECEIVED	CHECK NUMBER	COMMENTS
			\$		
APPROVED BY				DATE	

Jagdeep Talwar

**EDUCATION**

MS Material Engineering, Youngstown State University Youngstown, Ohio  
BS, Chemical Engineering, Youngstown State University Youngstown, Ohio

**EXPERIENCE**

Chemistry Branch Supervisor, Independent Test Evaluation, DHS/S&T/TSL 7/2018 - Present  
Checked Baggage Test Lead, Development Test Evaluation, 12/2005 - 7/2018  
Project Lead, SRA International, 5/1997 - 12/2005  
Project Engineer, Global Systems Technologies, Inc., 5/1994 - 5/1997  
Process Engineer, U.S. Pollution Control Inc., 9/1991 - 5/1994  
Project Engineer, NDI Engineering, 9/1989 - 8/1991

**PROFESSIONAL SUMMARY**

Mr. Talwar is a Supervisor for the Independent Test and Evaluation Chemistry Branch where he manages technical and administrative programs in support of certification testing and laboratory assessment of trace explosives detection equipment. He is a Subject Matter Expertise for testing explosives detection systems for checked baggage and checkpoint operations and development of test methodology for air cargo screening. Mr. Talwar is familiar with Transportation Security Equipment that employs technologies such as dual energy x-ray, computed tomography (CT), X-ray diffraction, quadrupole resonance, and ion mobility spectrometry.

He is member of the Homemade Explosives Working Group that reviews and provides recommendations for scale-up operations and testing and also serves as Division Safety Representative to ensure safety and health of employees and workplace compliance with applicable local, state and federal regulations.

Mr. Talwar is also the Chairperson for the Handheld Illicit Drug and Explosives Trace Detection program that supports DHS Strategic Solutions Office to qualify systems based functional requirements.

# RADIATION SAFETY AUTHORIZED USER TRAINING

THIS CERTIFIES THAT

## JAGDEEP TALWAR

HAS SUCCESSFULLY COMPLETED RADIATION AUTHORIZED USER TRAINING PROVIDED BY DHS SCIENCE AND TECHNOLOGY DIRECTORATE, ENVIRONMENT, SAFETY, HEALTH AND ENERGY BRANCH

**2 HOURS OF CONTINUING EDUCATION**

GIVEN THIS 13<sup>TH</sup> DAY OF JULY 2021



IAN ROSENBLUM, CHIEF  
ENVIRONMENT, SAFETY, HEALTH & ENERGY  
BRANCH  
SCIENCE & TECHNOLOGY DIRECTORATE  
DEPARTMENT OF HOMELAND SECURITY



SEAN AUSTIN, CHP TRAINER  
PLEXUS SCIENTIFIC CORPORATION  
7130 MINSTREL WAY, SUITE LL130  
COLUMBIA, MD 21045  
443-319-8055

