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Course Description

This Nuclear Criticality Safety Program’s (NCSP) class is designed for Managers and Criticality Safety Officers with Nuclear Criticality Safety (NCS) responsibilities, Fissile Material Operators, Regulatory Personnel and Process supervisors. The course is one-week long and is offered at two locations: the National Critical Experiment Research Center (NCERC) and Sandia National Laboratory (SNL/Sandia). The purpose of this course is to provide an experimental hands-on training experience addressing important characteristics of neutron-multiplying systems, which will include: awareness of fissile material in process operations, along with discussion of the theory and implications for safety of fissionable material operations; awareness and understanding of Department of Energy (DOE) mandates developed specifically for fissile material operators, process supervisors, and managers with NCS responsibilities, regarding application of DOE Orders, Guides, Rules, American Nuclear Society (ANS) standards in performance of criticality safety evaluations that meet DOE standards and hazards analysis methods and implementation/maintenance of NCS controls, with respect to the roles and responsibilities of all those who are involved.

A diverse team of instructors, experimenters, and coordinators participate in the conduct of these courses. Individuals from Oak Ridge National Laboratory, Lawrence Livermore National Laboratory, Sandia National Laboratory, National Nuclear Security Administration, Los Alamos National Laboratory, and National Security Technologies, LLC, currently participate in the course planning and execution.

Course Schedule

The Manager training with critical assemblies will depend upon your registration choice and clearance level. Uncleared, L- and Q-cleared students can attend the Sandia Hands-on course located at Technical Area 5 (TA-V) at Sandia National Laboratory (SNL/Sandia). Q-cleared students can attend the Hands-on Training at the National Critical Experiment Research Center (NCERC) located at the Device Assembly Facility (DAF) at the Nevada Nuclear Security Site (NNSS), located approximately 65 miles from Las Vegas, NV.

DAF/NCERC Course Schedule

- Monday, 8:00 am – 5:00 pm – Meet in Las Vegas Nevada Support Facility (232 Energy Way) in the Sedan or Great Basin conference room.
- Tuesday, 7:00 am – 5:00 pm – Meet at Mercury Badge Office to enroll in DAF security system; Proceed to the DAF Entry Guard Station (EGS) for the rest of the day
- Wednesday – Thursday, 7:45 am – 5:00 pm - Meet at DAF Entry Guard Station (EGS) to allow time for DAF entry with escorts.
- Friday, 8:30 am – 1 pm – Meet in Las Vegas Nevada Support Facility (232 Energy Way) in the Sedan or Great Basin conference room.
- NOTE: Bring a lunch and snacks for breaks. No lunch is provided.
- NOTE: Your badge is needed each day of training.

Please refer to the DAF/NCERC Hands-on Training Logistics section of this document for more information on location and badging.

Sandia Course Schedule

- Monday, 7:15 am – 5:00 pm – Meet at the IPOC Sandia Badge Office
- Tuesday – Thursday, 7:45 am – 5:00 pm – Meet at TA-V, Building 6577
- Friday – 7:45 am – 1:00 pm – Meet at TA-V, Building 6577
Course Content

The content of the DAF/NCERC and Sandia Manager courses are similar in nature, although the lectures are based on the types of critical assemblies at the location. The course content for each course is provided below.

DAF/NCERC Manager Course

- Review of NCS fundamentals
- Criticality safety standards and DOE regulations
- DOE requirements, national standards, and overview of the DOE Nuclear Criticality Safety Program
- Overview of DOE-STD-3007 and an overview of criticality safety evaluation content
- Experimental methodology introduction
- Training Assembly for Criticality Safety (TACS) experimental methodology
- TACS subcritical experiments
- Overview of reactor physics
- Planet subcritical hand-stacking experimental methodology
- Planet Hands-on operations and approach to critical and critical operations
- Advanced hands-on demonstration with the BeRP ball and the Np sphere
- Flattop critical operations
- Godiva IV critical assembly demonstration
- Review of experimental criticality accidents
- Human factors principles
- International Criticality Safety Benchmark Evaluation Project (ICSBEP) overview

Sandia Manager Course

- Review of NCS fundamentals
- Summary of process and experimental criticality accidents
- Overview of criticality safety evaluations and DOE-STD-3007
- Conduct of operations
- Design of the 7uPCX critical experiments
- Nuclear instrumentation
- Reactor kinetics
- Subcritical multiplication
- Nuclear criticality safety data and limits
- Overview of the ICSBEP
- Human factors principles
- ANSI/ANS-1 operations
- Criticality safety standards and DOE regulations
- Experiment 1-3 – approach to critical on fuel loading, moderator height and fuel separation
- Experiment 4 – Interior fuel rod removal

Completion Requirements

Attendees must complete an examination at the end of the week with a grade of 80% or better. Certificates for successful completion of the course will be emailed to students after the course is completed. Participation is
expected from all course attendees. **PLEASE DO NOT PLAN TO LEAVE EARLY OR YOU WILL NOT RECEIVE A CERTIFICATE.**

Students can also provide feedback on all aspects of the course, including content, instructors, classroom characteristics, etc. Feedback is provided to the Course Coordinator who oversees student feedback resolution with the course points-of-contact.

**Course Points-of-Contact**

Contact information for the 1-week course is listed in the table below. Pre-course questions should be directed to Doug Bowen and Marsha Henley. Questions during the course can be directed to Doug, Marsha or the course site points of contact.

<table>
<thead>
<tr>
<th>Name</th>
<th>Title and Contact Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Doug Bowen</td>
<td>Course Coordinator&lt;br&gt;(505) 500-7686 (cell)&lt;br&gt;(865) 576-0315 (office)&lt;br&gt;<a href="mailto:bowendg@ornl.gov">bowendg@ornl.gov</a></td>
</tr>
<tr>
<td>Marsha Henley</td>
<td>Registration Point-of-Contact&lt;br&gt;(865) 292-4884&lt;br&gt;<a href="mailto:henleym@ornl.gov">henleym@ornl.gov</a></td>
</tr>
<tr>
<td>Juan Delgado</td>
<td>NFO/NSF Point-of-Contact&lt;br&gt;(702) 481-4245 (cell)&lt;br&gt;<a href="mailto:Juan.Delgado@nnsa.doe.gov">Juan.Delgado@nnsa.doe.gov</a></td>
</tr>
<tr>
<td>Loretta Rankin</td>
<td>Sandia National Laboratory Class Point-of-Contact&lt;br&gt;(505) 845-9287&lt;br&gt;<a href="mailto:llranki@sandia.gov">llranki@sandia.gov</a></td>
</tr>
<tr>
<td>Catherine Percher</td>
<td>DAF/NCERC Class Point-of-Contact (Mon-Tuesday)&lt;br&gt;(925) 423-9345&lt;br&gt;<a href="mailto:percher1@llnl.gov">percher1@llnl.gov</a></td>
</tr>
<tr>
<td>Kelsey Amundson</td>
<td>DAF/NCERC Class Point-of-Contact (Wed-Thursday)&lt;br&gt;(505) 665-3833&lt;br&gt;(505) 551-2632&lt;br&gt;<a href="mailto:kamundson@lanl.gov">kamundson@lanl.gov</a></td>
</tr>
</tbody>
</table>

**Prerequisites**

This course is designed for Managers with NCS responsibilities, Criticality Safety Managers, Fissile Material Operators, Regulatory Personnel and Process supervisors.

**Sandia Hands-on Training Prerequisites**

Prior to obtaining unescorted access to TA-V at Sandia National Laboratories, the students **must complete training modules prior to the course.** The Sandia Manager’s course point-of-contact will provide registered students the training modules required to attend the course along with instructions to complete them.

**DAF/NCERC Hands-on Training Prerequisites**

The DAF/NCERC hands-on training class requires students to handle significant quantities of fissionable material to participate in the hands-on portions of the class, e.g., Planet critical assembly uranium foil hand stacking, handling the plutonium BeRP ball, and Neptunium sphere. To come to the NNSS and handle fissile materials, **Radworker II training (or equivalent training) is required.** For many people, this is the first time they have ever held significant quantities of uranium and plutonium. Thus, Rad Worker II training (or equivalent training) is required to attend the course. Currently, equivalency has been established for Radworker II for the following...
sites: LLNL, LANL, SNL, Pantex, Savannah River, PNNL, Y-12, ORNL, NFS, AMWTP Idaho, and INL. You will be asked by the course planners to provide proof of your Rad Worker II certification to allow your credentials to be accepted at DAF/NCERC.

**Site Specific Information**

**Sandia Hands-on Training Logistics**

**Sandia Badge Information**

If your badge has not been enrolled in the Sandia system, you **MUST** go to IPOC (Innovation Parkway Office Complex) on the first day. IPOC is located southeast of the Eubank gate. See the Sandia Maps/Directions section below for information on getting to the IPOC from the airport and within the gates.

**Meet at the IPOC at 7:15 a.m. on Monday.** Someone from TA-V will meet you at the entrance to assist with the badging process. You will request to have your badge put into the Sandia system. You will be asked to supply a 4-digit code to use your badge for access into limited areas.

We will then proceed to the Eubank gate. Your badge will get you through the gate. Take it out of the holder and pass it to the guard. They may check ID for everyone in the vehicle so be prepared if you have riders. Once you are on Pennsylvania, proceed until you see the sign to Tech Areas III and V. Turn right there and proceed to TA-V. The parking lot is just beyond the main double-fenced area. For those so equipped, the lat./lon. of the parking lot is 34 deg 59.959' - 106 deg 32.247'. Building 6577 is east of the parking lot outside the fence. The map labeled “Getting to Tech Area V (TA-V) from all Kirtland AF Gates” in this document shows you how to get to TA-V training building and where to park.

When we are at the critical experiment facility, we will be in a Limited Area which requires an L or Q clearance for unescorted access. The emergency plan at the reactor facilities also requires that anyone who has not been trained on emergency response for TA-V be escorted for safety reasons while in TA-V. One of the first things we will do after your arrival is to provide that training so you can have unrestricted access to TA-V.

Please see the Course Schedule for more information on dates, times, and locations for the course.

**Sandia Prohibited Items**

As described above, during the class, we will be in a Limited Area (LA). As at all U.S. Department of Energy facilities, each area has a long list of items that are not allowed with the LA being the most restricted. Examples of prohibited items are listed below. Please be aware that **upon entering or leaving Sandia premises, all personnel are subject to search of their persons, hand-carried items, and vehicles.**

Items that are ALWAYS prohibited at Sandia:

- Firearms
- Explosives, pyrotechnics, propellants
- Illegal drugs & paraphernalia, intoxicants
- Other items prohibited by law

Examples of items prohibited in the Limited Area (e.g. during our operations at the critical experiments):

- Personally owned electronic equipment
- Radio frequency transmitting equipment including Bluetooth devices, Wi-Fi devices, and pagers with
transmitters
   - NOTE: If you have personal medical electronic devices such as Bluetooth hearing aids, Bluetooth
     glucose monitors, Bluetooth insulin pumps, etc. please notify ncspteam@ornl.gov and the person
     coordinating access to the site.

- Recording equipment (audio, video, data)
- Computers and peripherals
- Removable computer media
- Cell phones or other cellular network devices
- Portable electronics including hand-held computing devices
- Non-Sandia owned devices

There is a lock box just inside the front door of Building 6577 that you can use.

**Lodging and Dining in Albuquerque**

SNL is located on Kirkland Air Force Base a few miles from the Albuquerque International Airport. A wide variety
of hotels are available very close to the laboratory. If you need assistance with lodging recommendations, please
contact Loretta Rankin at (505) 845-9287.
Sandia Maps/Directions

Directions to the Innovation Parkway Office Complex (IPOC) from the Airport

From the Airport, take I-25 north to I-40 east to the Eubank exit. Turn right [south] to the end of Eubank – where Eubank makes a bend to the right [west] just before the base gate. Turn left on Innovation Pkwy, the light just before the gate. The road bends left [east] and then you turn left [north] into the lot in front of the building. Look for the sign for the Sandia Badge Office.
Map of the Sandia Badge Office

New SNL Badge Office
August 2007

Proceed south on Eubank when approaching the gate, stay in lane that accesses the contractor gate (left lane) go thru light. Continue south until road looks like it ends. Curve to the left. See arrows on map for parking lot entrance.

When exiting Eubank gate & wanting to get to IPOC, stay in extreme right lane.

When exiting IPOC & wanting to get onto base, you will have to head north, bear left, merge with South bound traffic coming onto base.

Innovation Parkway Office Center (IPOC)

The Badge Office is in Suite A-1 (inside the main entrance, on the left)
Getting to Tech Area V (TA-V) from all Kirtland AFB Gates
Nevada Field Office (NFO)/Nevada Support Facility (NSF) Classroom Training Logistics

The classroom portion of the 1-week Manager/CSO Course is conducted at the NFO/NSF on the Monday and Friday. The course will be executed Tuesday through Thursday at DAF/NCERC.

NFO/NSF Location

The address of the NFO/NSF is 232 Energy Way, Las Vegas, Nevada.

NFO/NSF Badge Information

You will need a current DOE-issued HSPD-12 badge with a working magnetic strip (on the back) and gold chip (on the front). You should test your badge to make sure that both of these functions are working before coming to the NFO class. If you have a working DOE-issued HSPD-12 badge, proceed through the security checkpoint and to the Nevada Support Facility (NSF), which is the building on the hill that you can see after you drive onto the NFO. The course points-of-contact will meet you in the lobby of the NSF adjacent to the cafeteria. You will not need to have badge reader access to the other areas in the NSF for the course.

If you do not have a DOE-issued HSPD-12 badge or the functionality described above, please contact Marsha Henley, henleym@ornl.gov, to receive guidance regarding having your clearance transferred and to get a temporary site badge issued to you. You will need to visit the NFO badge office at the entrance to the NFO (first building on the right after you've turned from Losee Rd onto Energy Way) before proceeding to the NSF. They will issue you an NFO visitor badge. You will then proceed through the security checkpoint and to the Nevada Support Facility (NSF), which is the building on the hill that you can see after you drive onto the NFO. The course points-of-contact will meet you in the lobby of the NSF adjacent to the cafeteria. You will not need to have badge reader access to the other areas in the NSF for the course.

NSO/NSF Cell Phones and Laptops

Cell phones, even those with cameras, are allowed. However, no cell phones are allowed in cleared buildings or areas. Taking pictures is not allowed inside the security area.

Please bring your personal or work-issued laptop to the classroom. Before the class begins, you will be sent PDFs of course material and process accidents to be used in the class.

NSO/NSF Prohibited Articles

Personal cameras (besides those in cell phones) are not allowed. You CANNOT use a camera to take photographs.

As with all DOE sites, illicit drugs, explosives, and firearms are prohibited.

Traveling to the NSO/NSF

Flight Information

The closest airport is Las Vegas Harry Reid International Airport (airport code LAS). You will need to fly in on Sunday (the day before the course starts) as the course will begin early on Monday morning. Do not plan to fly home until Friday evening or Saturday. The courses should end by early afternoon on Friday.

Rental Car Information

A rental car is a must for attendance at the class. Most hotels in Las Vegas provide free parking (some provide free valet).

Lodging Information

Las Vegas
Las Vegas is usually the lodging location of choice for visitors. There are a plethora of hotels, entertainment, and dining options to choose from in Las Vegas. Many of the hotels offer rates below per diem, although some do charge add-on “resort fees” which may or may not be reimbursable by your travel department if they cause your lodging to be over per diem. The website www.vegas.com will allow you to easily compare rates at hotels in Las Vegas. Note that these rates DO NOT include the resort fees.

North Las Vegas

North Las Vegas is has many chain hotels (Marriott, Hampton Inn, La Quinta, etc.). A popular hotel/casino with many NFO/NSF regular visitors is the J.W. Marriott located on Summerlin Parkway. They do not charge resort fees and will typically offer government rate though their website or by phone reservation.

DAF/NCERC Hands-on Training Logistics

DAF/NCERC Location and Badging

Location

DAF/NCERC is located on the Nevada National Security Site (NNSS). The NNSS is a DOE site, approximately the size of Rhode Island, located 65 miles northwest of Las Vegas, NV. The main base camp is Mercury, Nevada (searchable on Google maps).

DAF/NCERC is located in the Device Assembly Facility, a further 25 miles past Mercury on the site.

Badging

Students need to meet Tuesday morning at 7:00 am sharp at the Mercury Badge Office to allow for enrollment in the DAF security system.

You will need a current DOE-issued HSPD-12 badge (see example figure below) with a working magnetic strip (on the back) and gold chip (on the front). Contact your badge office if you have any questions about the functionality of your badge. You should test your badge to make sure that both of these functions are working before coming to the DAF/NCERC class. If you do not have an HSPD-12 badge, or your badge does not work, please contact Marsha Henley, henleyjm@ornl.gov, to receive guidance regarding having your clearance transferred and to get a temporary site badge assigned to you.

What an HSPD-12 Badge Looks Like

Please see the Course Schedule for more information on dates, times and locations for the course.
**DAF/NCERC Dosimeters and Radiation Doses**

We will issue you a dosimeter on Monday morning. You must wear the dosimeter whenever you are in DAF. It should be worn above the waist with the window facing outwards. You will leave the dosimeters at DAF each night. We will collect the dosimeters on Thursday afternoon at the site. You will not need a dosimeter on Friday.

Radiation doses for the class are expected to be low. All critical experiments will be conducted in a shielded part of the facility to protect you from excessive doses. However, you will be handling fissile material, so you will receive some radiation dose. You will not receive more than 10 mrem during the entire week of the class, and your actual dose is likely to be much lower. At the end of the year, you will get a report of your dose from the NNSS contractor, NSTec, based on your dosimeter readings.

**DAF/NCERC Cell Phones and Prohibited Articles at the NNSS**

DAF/NCERC is very strict about items that can enter the facility. Please leave all electronics (ALL phones, pagers, key fobs, calculators, etc.), spark-producing items (lighters, matches, etc.), and extraneous metal items in your car. Personal cameras (besides those in cell phones) are not allowed on the NNSS. You CANNOT use a camera to take photographs on the NNSS.

There will be a location for you to store your wireless car key fob, which is also not allowed in DAF/NCERC.

As with all DOE sites, illicit drugs, explosives, and firearms are prohibited.

**DAF/NCERC Information on Things to Bring**

- Your badge! If you forget your badge, you might miss out on a day or more of the class
- Composite safety shoes if you have them (not required)
- A lunch for our experimental days (Monday, Tuesday, Wednesday, and Thursday)
- Money or credit card for lunch on Friday
- A calculator or laptop with spreadsheet software for homework (please leave in your car if you bring it onsite)

**DAF/NCERC Dress Code**

We will be in the DAF/NCERC Tuesday through Thursday. You need to wear long pants and sturdy shoes (tennis shoes, boots, or leather shoes) on lab days. If you have your own safety glasses with side shields, you may want to bring them for lab days.

If you are attending a class in the winter, the NNSS can be VERY cold in the early morning. Please make sure you bring a jacket.

**DAF/NCERC Flight Information**

The closest airport is Las Vegas Harry Reid International Airport (airport code LAS). You will need to fly in on Sunday (the day before the course starts) as the course will begin early on Monday morning. The course will conclude around noon on Friday. However, given travel time to the airport, rental car drop off, etc., the earliest time you want to reserve a return flight on Friday would be 6 pm.

**DAF/NCERC Rental Car Information**

A rental car is a must for attendance at the class. The NNSS is far from Las Vegas, and you will need to drive. Most hotels in Las Vegas provide free parking (some provide free valet).
**DAF/NCERC Driving on the Site**

The NNSS has many interesting sites scattered throughout the desert, but as a visitor, you are not allowed to drive around site seeing. Please only drive on the Mercury highway to and from DAF. Do not attempt to drive off-road and do not pick up anything on the site to take for a souvenir.

You can be pulled over for speeding on the site. Obey all speed limits.

**DAF/NCERC Driving Tips**

The commute to and from the site will be long (see notes under “Lodging Information” for approximate travel times). There is spotty radio and cell phone coverage on US-95, so you might want to bring CDs or an mp3 player and an auxiliary cable, especially for the early morning/late evening drives. Satellite radio is an option for your rental car, but is usually not a reimbursable additional expense for government travel. After the first day, you might consider car-pooling with your fellow students.

*****NOTE: You will go through gasoline VERY quickly with a 150+ mile (round-trip) commute each day. There is NO gasoline available at the NNSS and the gas stations are few and far between on US-95. Keep an eye on your fuel levels!

*****NOTE: Indian Springs is a small town (and one of the few gas station locations) you will have to pass through on your drive from Las Vegas to the site. This area is a HUGE speed trap, as you go from 70 mph down to 35 mph. Many people visiting the NNSS have been pulled over for speeding here. Make sure you slow down when going through Indian Springs. On a brighter note, you will drive by Creech Air Force Base, home of both the predator drones and the Thunderbirds. If you’re lucky, you just might get a free airshow during your commute to the site.

**DAF/NCERC Lodging Information**

**Las Vegas**

Las Vegas is usually the lodging location of choice for visitors to the NNSS. There are a plethora of hotels, entertainment, and dining options to choose from in Las Vegas. Many of the hotels offer rates below per diem although some do charge add-on “resort fees” which may or may not be reimbursable by your travel department if they cause your lodging to be over per diem. The website [www.vegas.com](http://www.vegas.com) will allow you to easily compare rates at hotels in Las Vegas. Note that these rates DO NOT include the resort fees.

****NOTE: If you choose to stay on the Strip (Las Vegas Blvd), be aware that your travel time to Mercury is approximately 75 minutes (early morning, no traffic). Your travel time to DAF (Wednesday and Thursday mornings) from the Strip is approximately 100 minutes.

**North Las Vegas**

North Las Vegas is another option for lodging near NNSS. It is approximately 10 miles closer to the site than the Strip, and has many chain hotels (Marriott, Hampton Inn, La Quinta, etc).

****NOTE: If you choose to stay in North Las Vegas, be aware that your travel time to Mercury is approximately 65 minutes (early morning, no traffic). Your travel time to DAF (Wednesday and Thursday mornings) is approximately 90 minutes.

**Mercury Dorms**

The NNSS does have dorm rooms available in Mercury. The rooms are standard motel-type rooms with internet
access and cable TV. The Mercury cafeteria is the only option on-site for dining. With your badge, you can freely leave the site 24 hours a day. Emergency medical services are also available. The dorms can be booked by contacting NSSHousing@nv.doe.gov.

The dorms are located in Mercury and are a 30-minute drive from DAF.
Maps of NSF/NSO and NNSS, Mercury/NV and DAF

Map of Nevada Support Facility/Nevada Field Office
Nevada National Security Site (NNSS) Map.

Mercury and DAF are highlighted with red boxes.