



ANS NCS D

Engineering Calculation Competition FAQ

Who can compete?

- Current students and young members attending the ANS Winter Meeting
- Undergraduates will be graded separately from graduate students and young members.

When is the competition?

- The competition opens on Monday, November 5th and final submissions must be received by noon Tuesday, November 13th. Solutions will be emailed to ncsd.competition@gmail.com and only those time stamped before noon local time will be eligible.
- A special hints segment will be conducted during the NCS D Education Committee meeting on Sunday November 11th at 1pm in the Nassau room. Stop by for some tips and a chance to ask questions.

How do I know if I win?

The first through third place winners of the undergraduate and graduate/young member categories will be contacted via the email used to submit their competition entries. The winners will be invited via email to attend the NCS D awards dinner Tuesday November 13th from 7-9pm at Fogo De Chao Brazilian Steakhouse, 48282 International Drive, Orlando, FL 32819. All 6 individuals who place will receive a complimentary ticket to the NCS D awards dinner (a \$90 value) Tuesday evening and an official ANS award certificate.

- First Place for Undergraduate and Grad/YMG: \$150 Amazon Gift Card, official ANS award certificate, and complimentary ticket to NCS D awards dinner
- Second Place for Undergraduate and Grad/YMG: Amazon Echo Dot with Alexa, official ANS award certificate, and complimentary ticket to NCS D awards dinner
- Third Place for Undergraduate and Grad/YMG: Official ANS award certificate and complimentary ticket to NCS D awards dinner

The solution to the problem will be presented during the NCS D Hand Calculation morning technical session on Wednesday, November 14th. This session is open to any who are interested in learning the process required to solve the kind of sample problem highlighted in the calculation competition. If you

want to see where you can improve, or how an NCS D professional would solve this problem, be sure to attend the session.

Can I ask for help?

- Yes! You are encouraged to find NCS D members and ask for technical tips and assistance in your approach to the problem. You are free to ask anyone as long as you credit your sources, but it is recommended you find knowledgeable NCS D members who have professional experience with these kinds of problems. You can identify knowledgeable division members by the radiation symbol sticker on their name badges:



And don't forget to take advantage of the hints session during the NCS D Education Committee meeting, Sunday November 11th at 1pm in the Nassau room. Stop by for some tips and a chance to ask questions.

What do I have to do to compete?

- Go to ncsd.ans.org to download the problem statement. Propose a solution and send it to the provided email. Your solution may include a basic physics hand calculation, a computer model, a statement of safety and reasonability, or some other justification to explain why it is a satisfactory solution. You may reference US standards or regulations, other documented safety analysis, or findings from nuclear safety incidents. The problem is broad, and as in real life there may be many 'right' ways to solve the problem. The judges will grade the submissions on technical merit, completeness, and choose the best answer as the winner.