This assignment focuses on the need for software engineering techniques and software development processes. You are asked to write a thoughtful 1 page (single-spaced, 11-point font, 1-inch margins) critique on the potential negative impacts when ad hoc software engineering techniques are used in the development of safety-critical, high-assurance applications.

After reading the Therac-25 paper, write a 1-page critique that addresses the following points. Use concrete examples to support your arguments.

1. Who was at fault for the Therac-25 accidents?

2. What could/should have been done differently to prevent such tragedies?

3. Describe the similarities between Therac-25 incidents and recent software-based accidents (either Boeing 737 MAX accidents OR Toyota unintended acceleration accidents). Explain the similarities and differences, both with respect to the technical aspects and the reporting process. What can be done to prevent future such accidents?

Your critique will be evaluated according to the following criteria:

- Have you presented a cohesive write up? (Do not submit short answers for each of the above points. The critique should be read as one document.)

- Have you addressed all of the technical points, using concrete examples to support your arguments?

- Does each paragraph have a thesis sentence with the paragraph body containing supporting text?

- Has the document been thoroughly proofread and typos eliminated?

- If you cite examples from the literature, be sure to include a citation in the body text and a bibliography section at the end of the write up (this information can float to the second page).