Phys 280 RE3v1 rubric: **No RE3v1 sent to peer on time : -5 from RE3v2** **No writer's memo: -10** **RE3v1 submitted late electronically: -15**

Incorrect facts/content included from AI draft: -15 **Only final draft submitted: -80%**

Features:	**Description:**	**Range:**	**Comments on student paper for each feature (noting problems and strengths)**:
Coverage of issues and informati on	Includes the following: 1. A brief summary. 2. An introductory paragraph that describes some of the most important nuclear-explosive nuclides. 3. A paragraph that (a) lists the isotope requirements for making a uranium weapon, (b) lists the technologies currently available to produce uranium that meets these requirements, and (c) notes and describes the particular technology that is currently favored. 4. A paragraph that describes the simplest way to create a nuclear explosion using weapons-grade uranium. 5. A paragraph that lists the usually quoted isotope requirements for making a plutonium weapon and describes the technologies used to produce plutonium that meets these requirements. 6. A paragraph that describes how to create a nuclear explosion using weapons-grade plutonium. 7. A paragraph that explains why the production method that is optimal for producing weapons-grade plutonium is incompatible with efficient power generation. 8. A paragraph that describes why it is more difficult to make a bomb using reactor-grade plutonium than using weapons-grade plutonium. Indicate whether it is possible to create a nuclear explosion using reactor-grade plutonium. 9. A final paragraph that explains briefly why restricting the availability of nuclear explosive nuclides is the most effective way to prevent the spread of nuclear weapons.	15% **High** **Mid** **Low**	
Precise and accurate use of concepts	Course concepts from lecture and readings are employed clearly, accurately, and with a sufficient level of detail (i.e. quantified) in service of the above objectives.	5% **High** **Mid** **Low**	

Explanation & argument	Rationale for arguments (particularly regarding sections 3c, 4, 7, 8, and 9) is clear and convincing.	5% **High** **Mid** **Low**	
Professional style	Geared toward a college-educated member of congress. Congruent with Congressional Research Service report style. Language (word choice, sentence structure, flow of information etc.) is precise and straightforward, attending to: Concision Clarity Brevity Professional tone Organization Comprehensive and thoughtful use of sources (need all three). - Source info clearly cited. - Uses a mixture of quotation, paraphrase, and summary.	20% **High** **Mid** **Low**	
Conformity to conventions	1.5-2 pages, singled-spaced Title and section headings specified in prompt Header and date in correct format Page numbers 12-point Times New Roman font throughout (including page numbers) 1.25" side margins and 1" top margins and .5" bottom margins. Citation practices specified in prompt. Key terms bolded in first use (check = all correct, x = some mistakes (-5)) **If you can't find the error, come to office hours!	15% **High** **Mid** **Low**	

Copy editing and use of standard language	Grammar and mechanics are edited for correctness and legibility. Perfect polish is not necessary in a first draft, but out of respect for your reader, you should make some effort to make the draft an easy read.	5% **High** **Mid** **Low**	
Use of AI	AI disclosure statement Quality of author-provided responses and draft. Prompts provide relevant information to AI-tool (content and style, references, explanation of context) Use of AI responses to improve final version. Analysis of difference between author and AI revision.	25% **High** **Mid** **Low**	
Thoughtful peer response	1.5% for each writer's memo question answered and/or for each substantial comment 2.5% for the following: AI disclosure statement and inclusion of AI prompts/responses Use of AI responses to improve peer review comments Analysis of effectiveness of AI comments	10%	
Overall Comments:			