No hard copy submitted: -5 RE2v2 submitted late: -15

No writer's memo: -10 No RE2v1 attached: -12

Features Description Range Comments for 2-3 primary features (by % weight) **Coverage of** In making the case for funding the Manhattan Project, be sure to include 20% issues & the following technical content (not necessarily in this order): information High The definition of (a) a fissionable nuclide, (b) a fissile nuclide and Mid (c) a fertile nuclide. In your explanation, list (d) an example of a fissile nuclide, (e) an example of a fissionable nuclide that is not Low fissile, and (f) an example of a fertile nuclide. The definition of (a) a nuclear-explosive nuclide and (b) a nuclearexplosive material. Explain (c) whether or not all fissile nuclides are nuclear-explosive nuclides. Explain (d) why some nuclides that are not fissile are nevertheless nuclear-explosive. In your explanation, (e) list an example of an important nuclear-explosive nuclide that is not fissile. Explain in one or two paragraphs the basic, general requirements for achieving a nuclear explosion using nuclear explosive material. n.b. Do not go into any of the details of particular weapon designs. Explain in (a) one paragraph why the energy released in a nuclear explosion is much greater than the energy released in the explosion of a conventional bomb. In (b) a separate paragraph illustrate the magnitude of energy release of a nuclear explosion when deployed strategically. Accurate use Accurate, clear definitions of: 20% of concepts Fissile, fissionable, and fertile High NEM, NEN Mid Accurate, clear explanations of: Nuclear explosion using NEM Low Energy release greater than conventional bomb **Explanation &** Writer's approach is persuasive 10% argument Technical content is integrated into the persuasive case Explanations use careful logic and evidence in reasoning about High concepts and their applications Mid Low

Professional & adaptive style	 Geared toward college-educated member of Congress Congruent with Congressional Research Service report style: text is clear, concise, organized; uses a tone appropriate to writing situation (CRS report) Comprehensive and thoughtful use of sources (need both "Physics and Technology of NEM" and course slides). Source info cited according to assignment sheet Most of report is in writer's own words 	20% High Mid Low	
Conformity to conventions	 2 pages 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 (except if specified in prompt) 1.25" side margins and 1" top margins and .5" bottom margins Citation practices specified in prompt Key terms bolded in first use (V = all correct, X = some mistakes [-10], XX = no conformity [-15]) 	15% High Mid Low	**If you can't find the error, come to office hours.**
Copy editing & use of standard language	Grammar and mechanics are edited for correctness and readability 2% for each writer's memo question answered and/or for each substantial	5% High Mid Low	
Comment Comments:			