

Appendix 1 of 6
High-Level Bases and Assumptions for the WTP Project Baseline

1. The process design is adequate to perform the intended function.
2. DOE will meet all of its responsibilities set forth in the ICD's.
3. DOE will be able to provide timely financial authorization in accordance with the contract, to achieve the project schedule.
4. DOE site activities will have no disruptive impact on project activities.
5. DOE will provide water and power at quantities required by the project at no cost to the contractor. The baseline does not include changing electric-based hot water heating to fuel-oil-based.
6. Regulatory actions will support the dates specified in the schedule baseline.
7. The Toxic Substance Control Act (TSCA) Permit will not be required to treat Hanford tank waste.
8. The LAW and LPP facilities will be designed as SC-III facilities.
9. Qualified vendors and construction craft will be available to support the baseline schedule requirements.
10. Melter will meet or exceed their four-year design life and will not fail during the project. Failed melter/spare melter handling and/or disposal costs, as well as associated schedule impacts, are not included in the scope of this baseline.
11. The R&T estimate incorporates a success-oriented approach; for instance, technology and design confirmation issues close on schedule.
12. The facility models and R&T results will demonstrate that plant throughput requirements specified in the contract will be achieved with the current plant design. The baseline contains no provisions or allowances for plant modifications or enhancements to achieve specified capacities.
13. No re-work will be required for previously completed R&T work due to technical, quality or regulatory interpretation.
14. The period for DOE review of safety documents is compliant with the contract requirements. Specifically, the review period for the PSAR is 7 months after submittal.
15. Excavated materials will be suitable for structural backfill.
16. Aggregate for concrete will be available from a qualified quarry on the DOE Hanford Site.
17. Construction will be performed on a 4-day, 10-hour per day basis. A second shift will be utilized for approximately 30% of the work.
18. Following the hot commissioning of the facilities (cold commissioning for BOF) and the laboratory, operations of the facilities will be the responsibility of DOE's operating contractor. Support and interface requirements to complete the WTP prime contract will be provided on interfacing agreements.
19. There will be no flushing of the process equipment between different feed envelope campaigns (normal melter turnover will be utilized).
20. No operations, surveillance, or maintenance costs are incurred by BNI after hot commissioning for each facility.
21. Project will not provide any facility specific qualification related training after initial hot commissioning qualifications. Operations and maintenance staffing will be reduced after start of hot commissioning from a five-shift to a four-shift rotation due to elimination of facility specific qualification training.
22. The basis of estimate recognizes a change to the April 24, 2000 commissioning strategy due to the Prime Contracts requirement to start up and commission all three LAW melter simultaneously rather than a phased startup approach.