Annotation Legend
Not Critical
Actively Cpt-Start Finish IF

FINAL DESIGN PREREQUISITES

DESIGN

INTEGRATED DATA SYSTEM

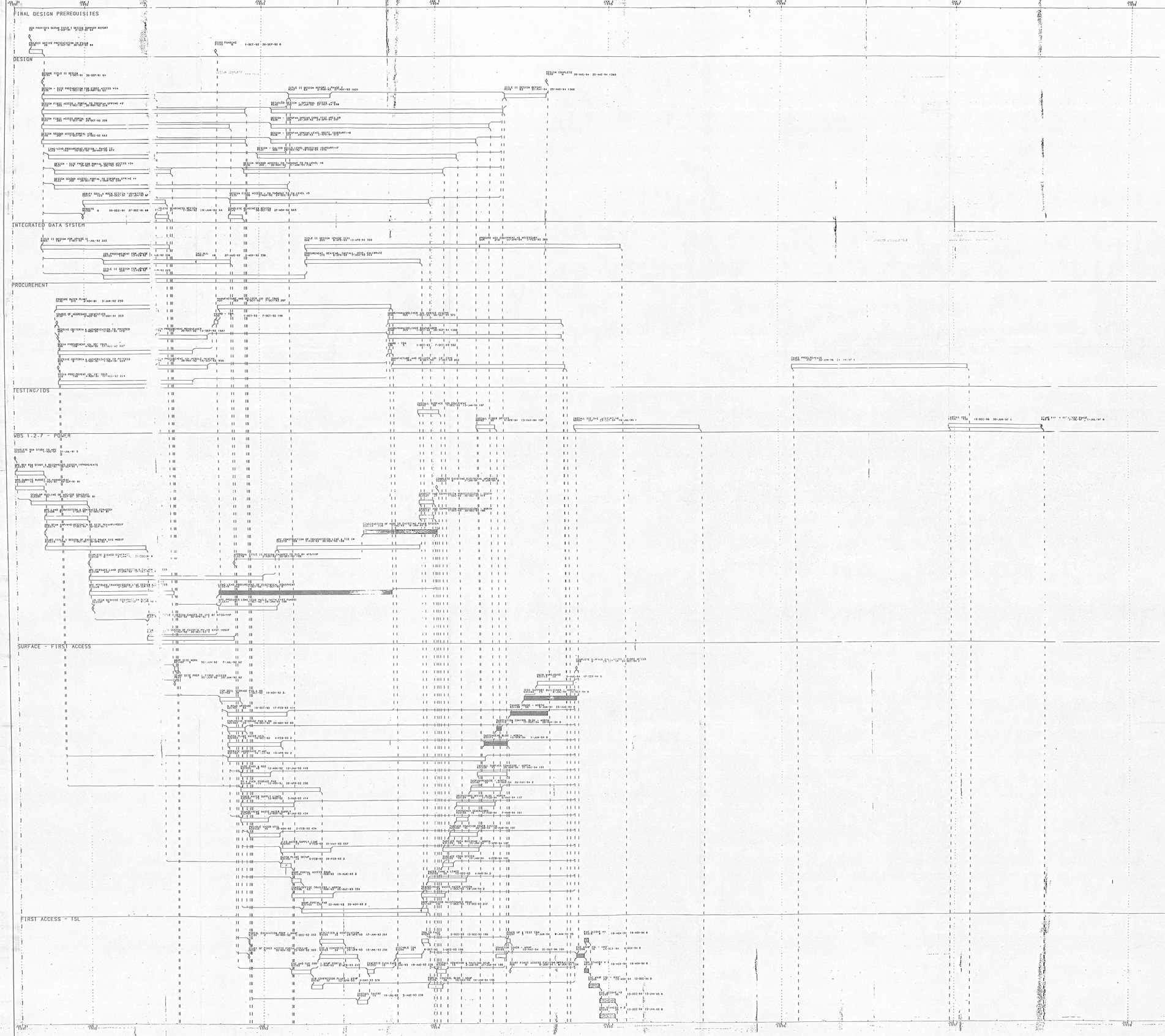
PROCUREMENT

TESTING/IDS

WBS 1.2.7 - POWER

SURFACE - FIRST ACCESS

FIRST ACCESS - TSL



ASSUMPTIONS AND NOTES FOR TITLE I DSR SCHEDULE

EXPLORATORY STUDIES FACILITY

W.B.S #1.2.6.
REV. 2.0 - 27-AUG-91

This network has been prepared by the YMP and its supporting participants as part of the process of developing a revision to the Title I Design Summary Report (DSR). These cost/schedule projections are based on drawings and specifications that are available with the DSR.

1) Water use permits are available on 1/92.

2) Other special use permits are available so as to not delay construction.

3) FY92 is cost constrained to $1.3m for site construction.

4) The WBS #1.2.6 scope is defined by the new proposed WBS for Annex II of the Project Management Plan (Work Breakdown Structure Index and Dictionary).

5) Title I preparation responsibilities:

YMPO	REECo
Overall Management	Construction Maintenance and Operation Cost
TAMIS	Cost Estimate Support Final Construction Schedule
Integration Network Preparation Cost Estimate Support	Test Support Construction Costs LAWL
RSN	IDS Cost and Schedule (RSN input) Test Support Schedule & Locations
Design Documents Design Cost and Schedule Direct Construction Costs Assembly of the Cost Estimate Construction Schedule Review	

6) The concrete batch plant and the Type II screening plant shall be specified and erected as part of 1.2.6.3. However, the operation of these facilities shall be in 1.2.7.4.3.

7) Sufficient material of suitable quality for aggregate is available in Forty Mile Wash.

8) The budget for the following services will be consolidated in 1.2.7.4.3.

+ Medical/First Aid
+ Bus Transportation
+ Portable Sanitary Facilities
+ Utilities
+ Warehousing

9) ESF water will be piped from well J-13 and telephone distribution shall begin at the nearest reasonable point of supply. The power interface between 1.2.6 and 1.2.7 shall be on the low voltage side of the local substation at each ESF underground opening. Necessary system improvements up-stream of the connection shall be covered by 1.2.7.3.

10) The capacity of the existing electric power distribution system is inadequate for the ESF construction. WBS #1.2.7.3 carries the costs of providing sufficient power. The planned acquisition of this power is shown in the WBS #1.2.7 activities on this network.

11) First Access Portal/Collar has priority over Second Access Portal/Collar.

12) Calico Hills Access construction has priority over Topopah Spring Access construction.

13) Design outputs shall be phased consistent with the requirements for long lead procurement and FY92 milestones.

14) Start of First Portal/Collar Site Preparation 6/92
Start of First Portal/Collar construction 11/92

15) Access start is defined as the beginning of excavation on the center-line of the opening.

16) The Optional Access shall be designed, but constructed only if required data cannot be obtained in the Accesses or from Surface base Testing. For planning purposes, the Optional Access shaft will be bored with a mechanical excavator such as a Robbins Model 261SR-216 and lined to 25 feet diameter. However, this assumption shall be re-evaluated prior to the beginning of design.

17) The Topopah Spring Core Test Area shall be in the general vicinity of the interface of the TSL main drift and the First Access.

18) All surface construction is done on day shift working a 5-day week and all underground construction will be done in 3 shifts working a 7-day week.

Excavation rates are:

Mobile Miner		- 30'/day, setup time 45 days
RoadHeader -	slopes < 8%	- 35'/day, setup time 45 days
	slopes > 8%	- 22'/day
TBM -	slopes < 8%	- 55'/day, setup time 90 days
	slopes > 8%	- 35'/day

19) IDS operations begins after the installation of Phase I. However operation activities are not shown on the network.

20) The First Access TBM excavation will be delayed during construction of 15 test locations and one day per week for geological mapping.

The Second Access TBM excavation will be delayed during construction of 6 test locations and one day per week for geological mapping.

21) TBM standby, Mobile Miner (MM) standby, and RoadHeader (RH) standby includes the duration and costs for the standby of the mechanical mining equipment and support labor.

22) Alcove construction is based on drill and blast and will require the removal of utilities and the muck conveyor in the vicinity of the alcove construction.

23) Two TBMs will be assembled on the surface and two will be transported underground and assembled.

24) TBM installation is included in the duration for Access Construction.

25) Long Lead Procurements (LLP) are defined as the critical engineered items that have restricted availability such as special design outputs are required to mitigate schedule problems. Assumed LLP's are:

- o TBM's
- o Electrical Items
- o Mobile Miners
- o RoadHeaders

26) Demobilization is included in the last production activity.

27) All continuous mining equipment (TBM's Mobile Miners, RoadHeaders) will be disassembled and brought to the surface, following construction of the ESF.

28) The heated room and sequential drift test on the TSL will require the use of an 18 foot diameter TBM, which will be disassembled following connection of the main drifts at the CRL and re-assembled on the TSL.

29) The start of the Repository Horizon Near-Field Hydrologic Environment Test will be initiated as early as possible during development of the MTA at the TSL.

30) All underground equipment will be sized to fit through underground excavations without removal of permanent utilities.

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