



STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

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January 6, 1993

Mr. James D. Bauer
U.S. Department of Energy
P.O. Box 550
Richland, WA. 99352



Dear Mr. Bauer:

Re: W-049H, Plans and Specifications, M-17-08

I have checked the plans and specifications for this project. My comments are divided into those items I consider mandatory from a regulatory standpoint, those I feel are general comments on engineering design of similar projects that I have done in the past, and which are not mandatory.

MANDATORY:

Specifications:

Section 01019 allows the contractor to open a materials pit and mine stony materials for use on the project. Section 01065 lists the permits that the owner will obtain for the contractor. These sections do not mention that a permit is required under state law for mining gravel and sand.

Section 01100 should make it plain that equipment maintenance fluids (fuel, waste lubricating oils, engine coolant, hydraulic fluid etc. will probably constitute the largest portion of hazardous materials found during construction). A clear plan as to how these materials are handled during routine maintenance, field repairs and refueling operations should be required in this section.

Section 01310 should list environmental activities as one or more separate bid items. As incidental items they will be the first things neglected or poorly done when profits get small.

Section 02650 should go into more detail as to pressure testing procedures. How large a section of pipe will be isolated at one time for testing? The static pressure variation from high point to low point on the transfer line will be 72 psi.



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Plans:

On layout plans, it would be much easier to understand the system if each contributing facility were shown by name in addition to building number. This is done on the P&ID drawings and could easily be done on the layouts.

The proposed new laundry is gone. It should be removed from these plans.

GENERAL COMMENTS:

The definite article is a useful part of the english language. While I understand that the omission of the definite article was is a fad in the CSI, it makes the text of those specifications where it is omitted hard to read and unclear.

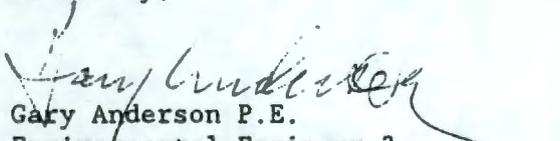
Specifications:

Section 02512. No strength or stability is specified for the hot mix asphaltic concrete that I can see.

There seem to be clusters of air relief valves in some places and long stretches between them in other places. What is the rationale?

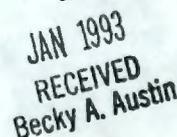
Most cities, railroads, and counties nowadays require casing pipe under paved roads and railway lines. It is easier to repair breaks in the pipe, it is stronger, and it leaves the roadway in better shape. I recommend it.

Sincerely,


Gary Anderson P.E.
Environmental Engineer 3
Nuclear and Mixed Waste Management

GA:lj

cc: Becky Austin, WHC
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Becky A. Austin

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Subject: W-049H, PLANS AND SPECIFICAITONS, M-17-08

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