

CIMARRON ENVIRONMENTAL RESPONSE TRUST

Facility Decommissioning Plan – Rev 2

DP SECTION 1 – LICENSE & FACILITY HISTORY

DP SECTION 4 – DECOMMISSIONING CRITERIA

DP SECTION 10 – PROJECT MANAGEMENT & ORGANIZATION

Note: Information provided herein consists of partial or incomplete images and information taken from multiple other data sources. It is provided for summary purposes only and should not be relied upon as technically complete or comprehensive.

March 22, 2021

DP Section 1 - License & Facility History

License SNM-928

Issued for Uranium Fuel Production

Restricted to Decommissioning in 1977

Renewed in 1983 – 21 amendments since 1983

License SNM-1174

Issued for Mixed Oxide Fuel Production

Terminated in 1993

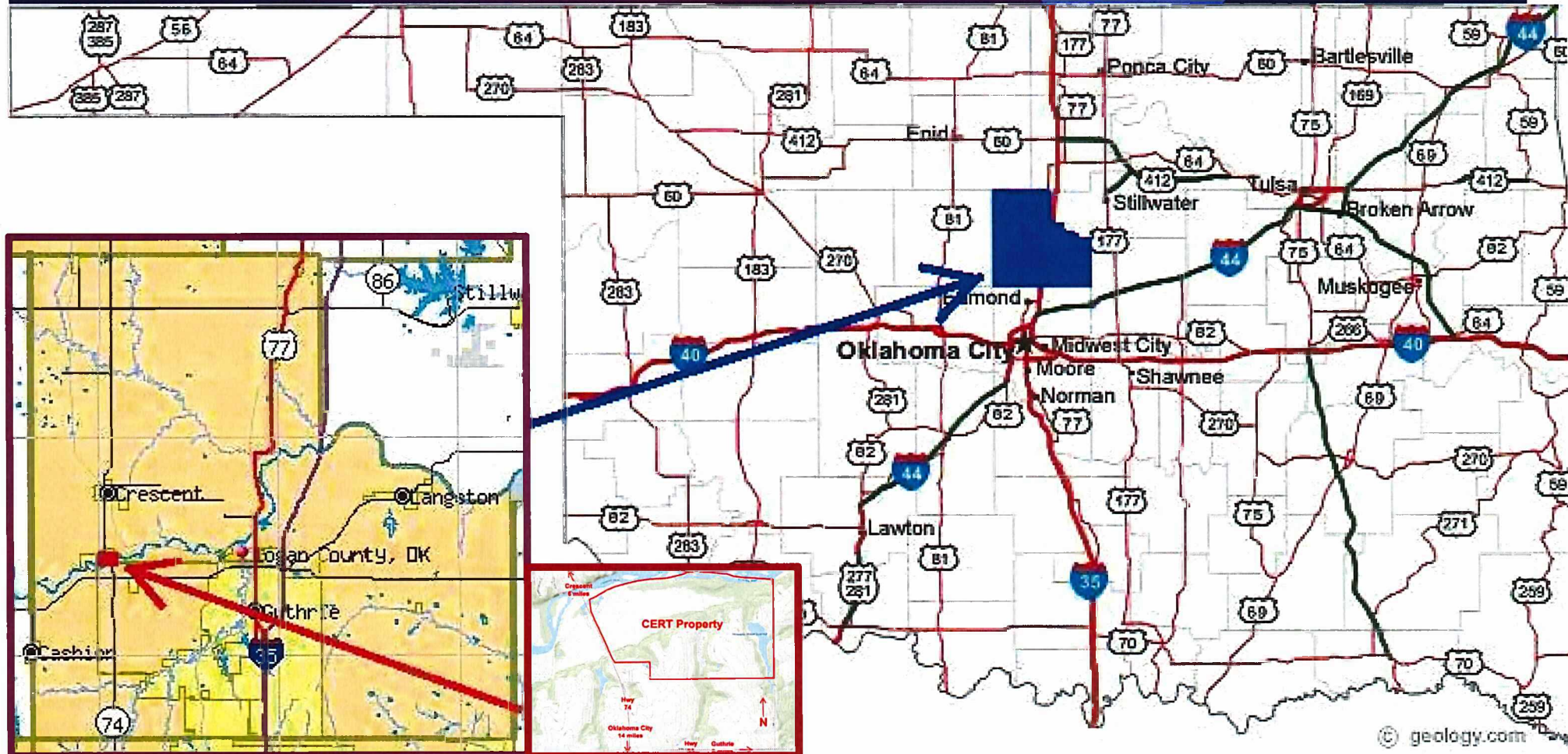
License 35-12636-02

Issued for Possession of Sealed Sources

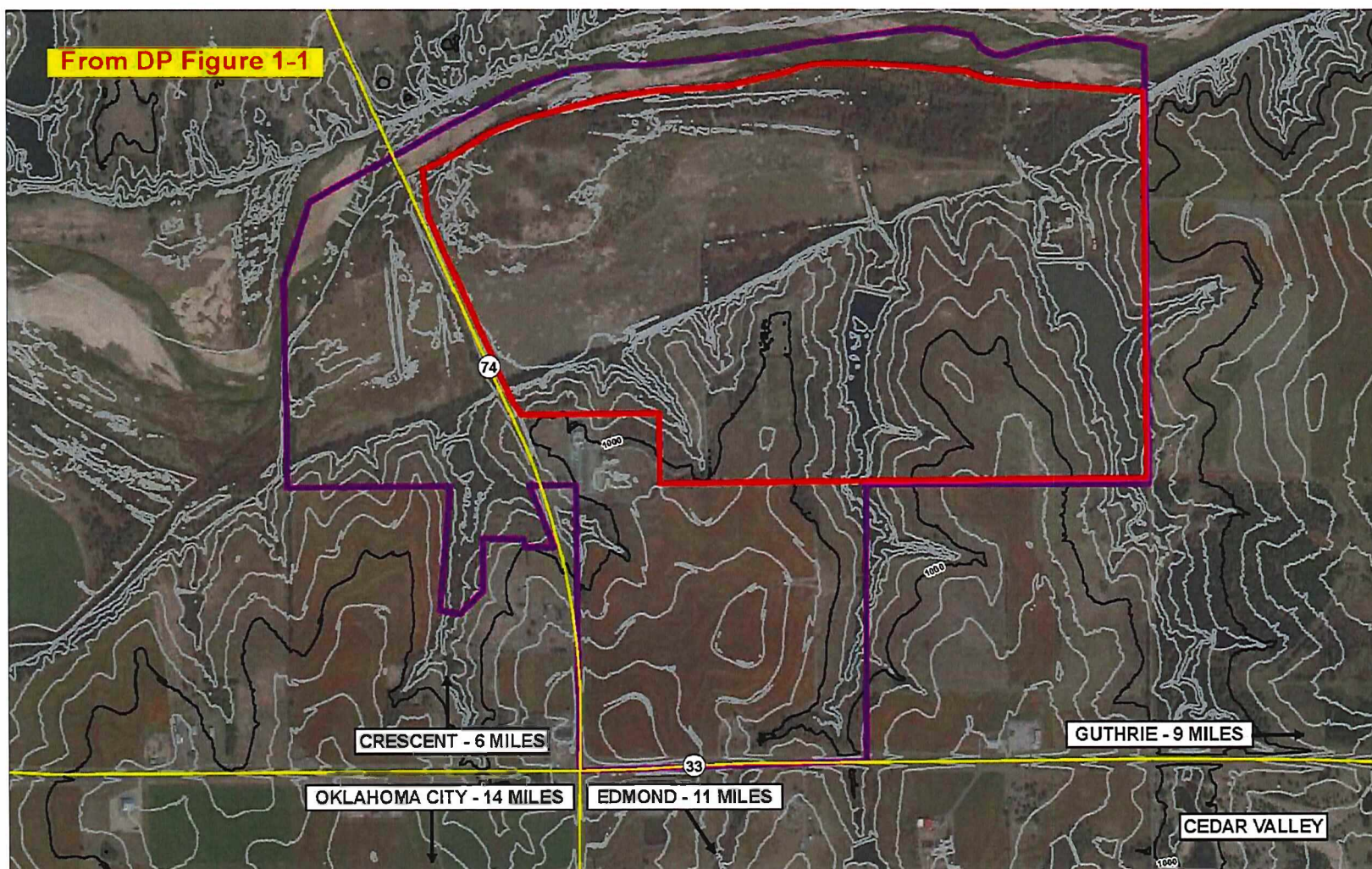
Terminated in 1988

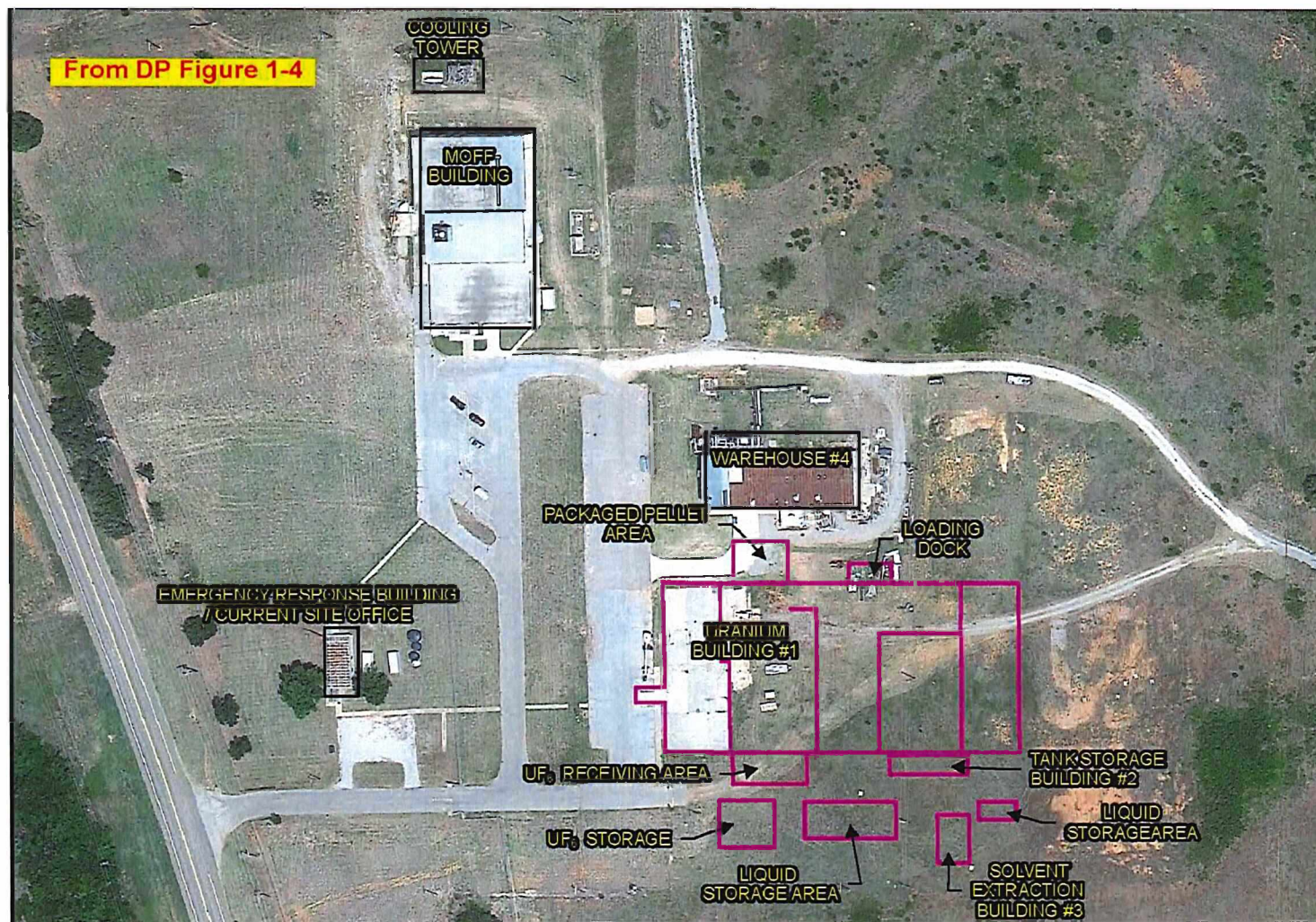
Site Location in Oklahoma

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Site Relation to Nearby Cities





Buildings
During
Operating
Years

Contaminants of Concern

Uranium Fuel Production

Feedstock was UF_6 – typically < 5% enriched

Production process included nitric acid

- Hence LEU, nitrate, fluoride

Some UF_6 came from recycled material

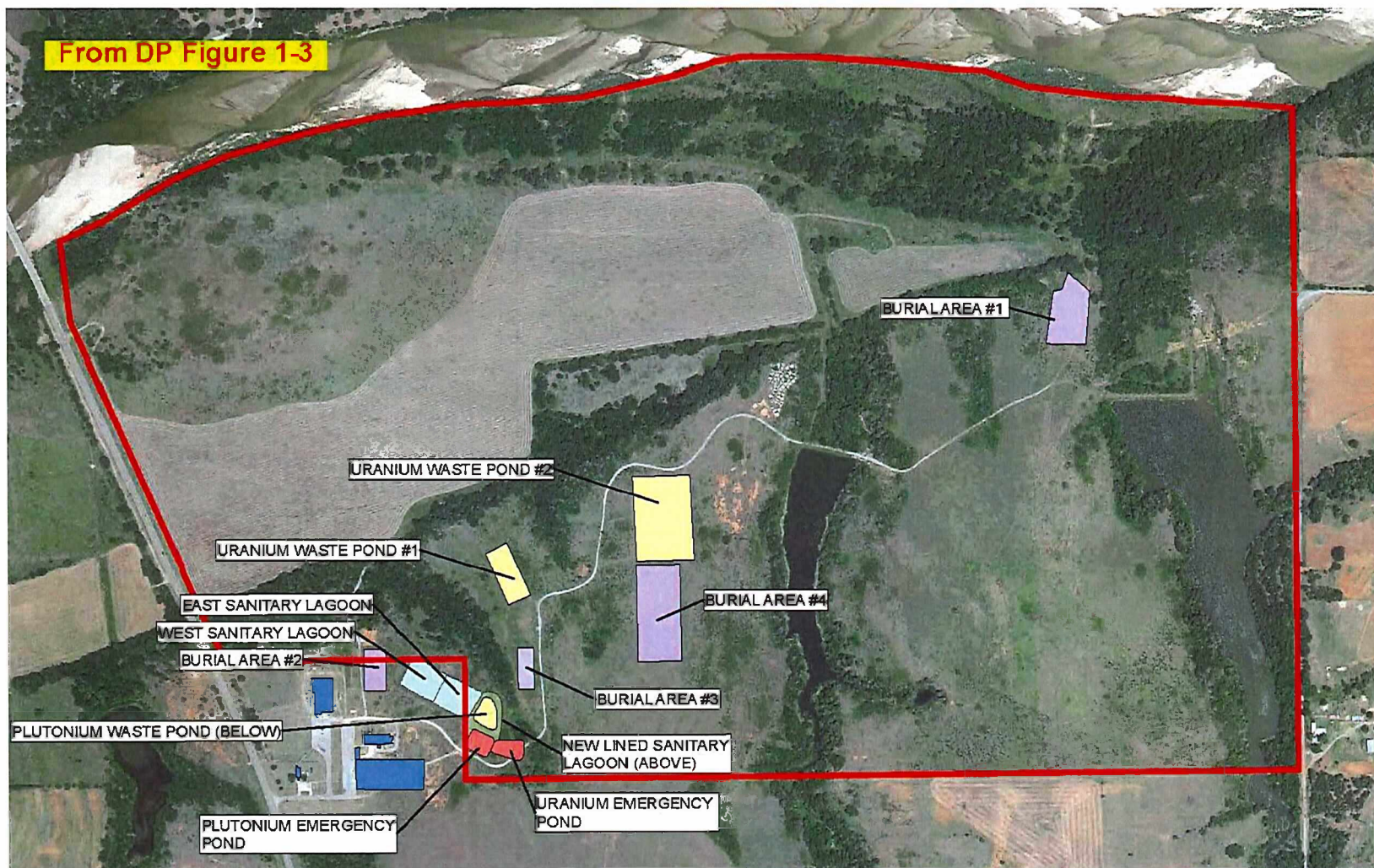
- Hence Tc-99

Mixed Oxide Fuel Production

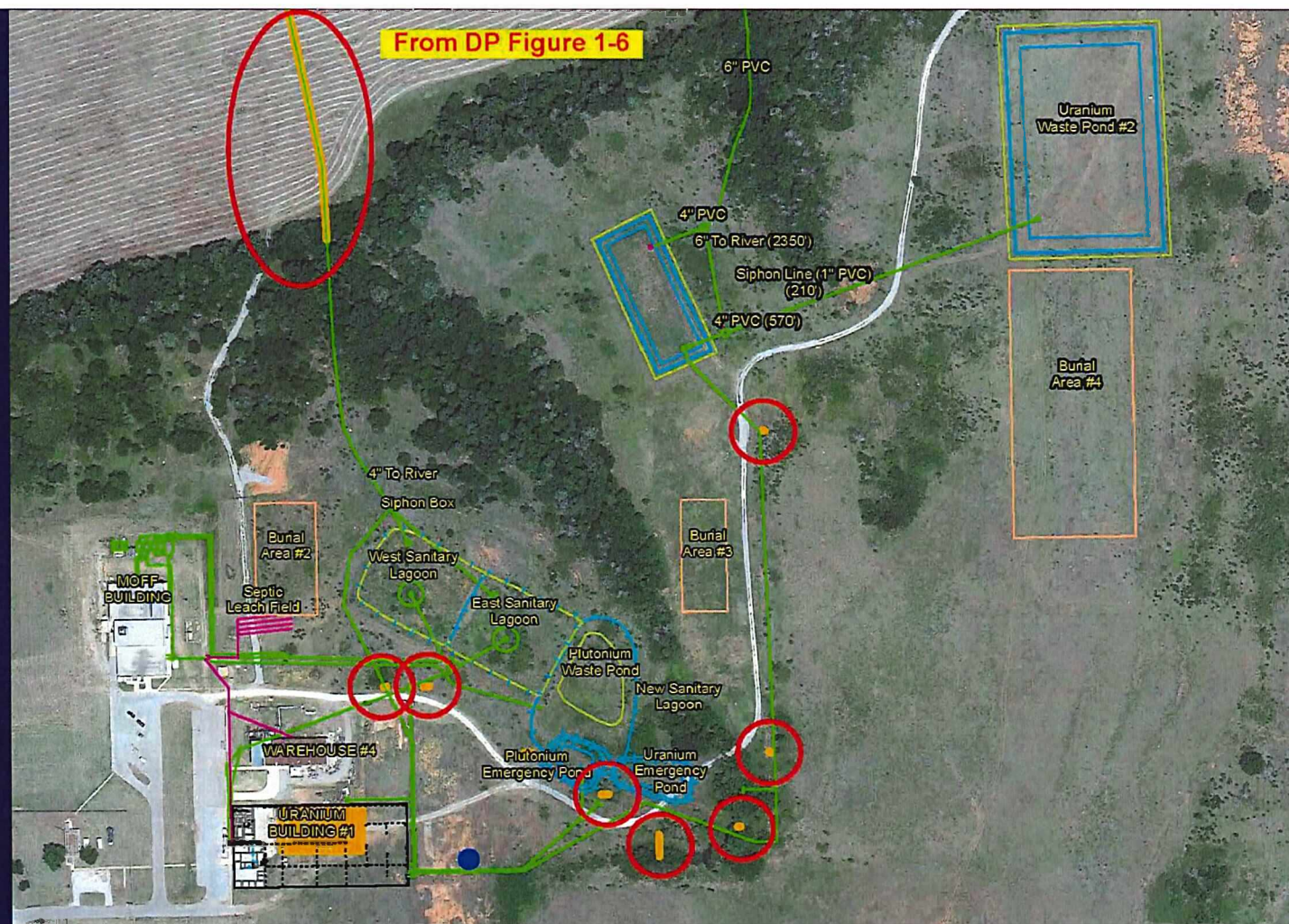
Feedstock was uranyl nitrate and plutonium nitrate

- Plutonium was never detected in environmental media

Buildings, Ponds, And Burial Areas



Releases From Pipelines



Decommissioning Completed

Mixed Oxide Facility

Building decommissioning completed

No evidence of plutonium in environmental media

License Terminated in 1993

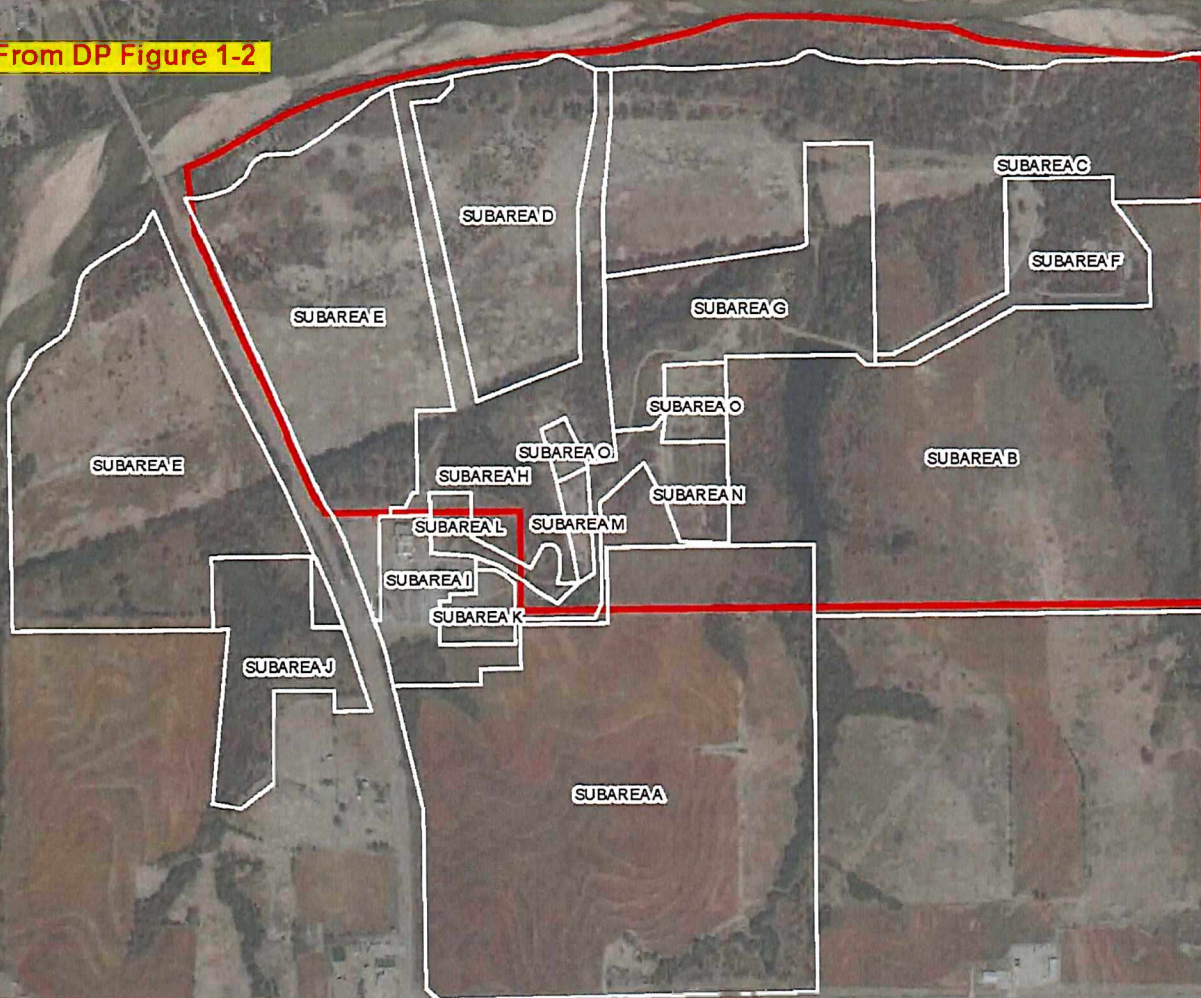
Uranium Production Facility

Areas containing:

- Buildings
- Impoundments
- Buried Waste
- Pipelines

have been decommissioned and released.

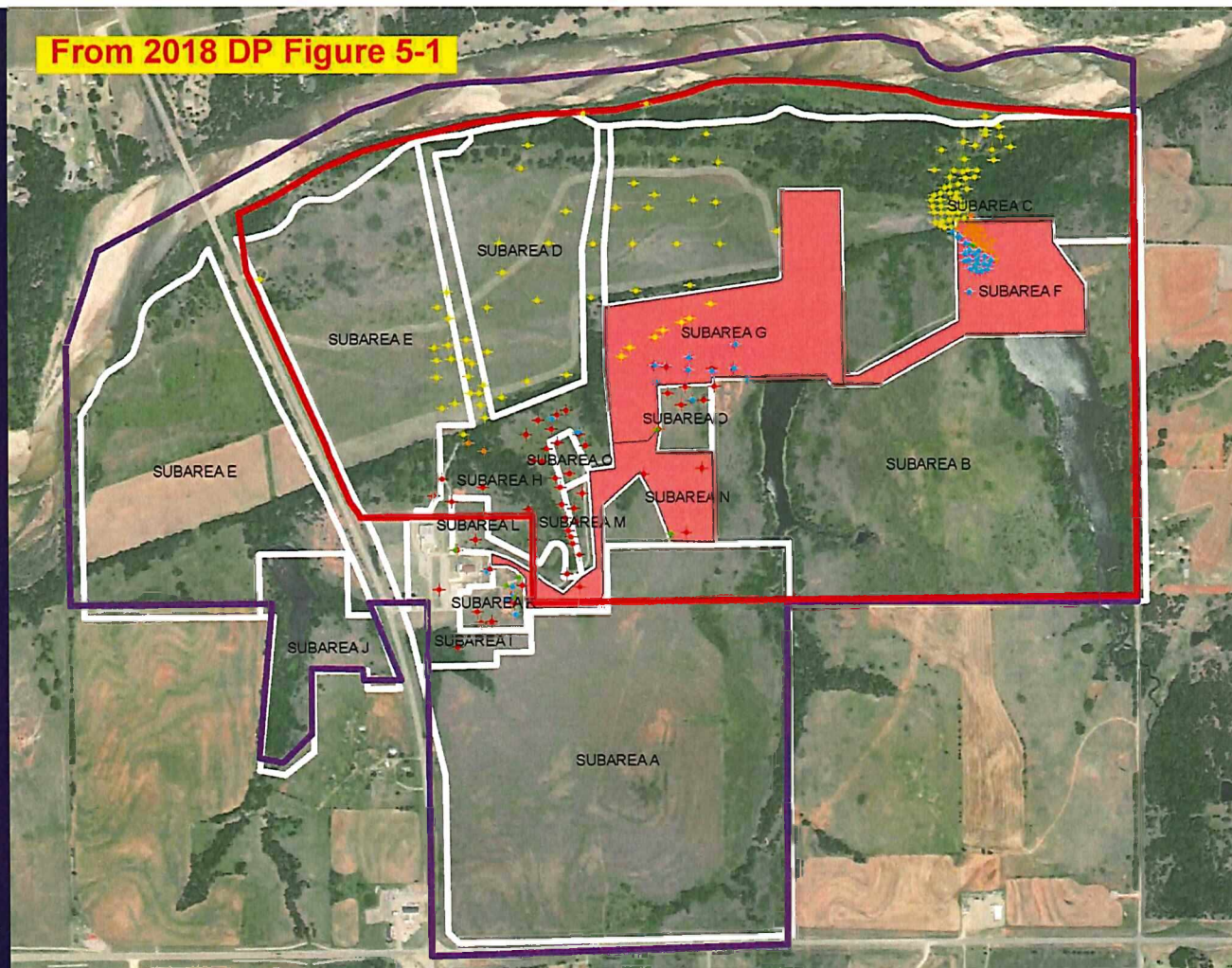
From DP Figure 1-2



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Subareas
(for Final
Status
Surveys)

From 2018 DP Figure 5-1



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Property
Remaining
Under
License

DP Section 4 – Unrestricted Release Criteria Facilities & Equipment

- Average
 - 5,000 dpm alpha/100 cm²
 - 5,000 dpm beta-gamma/100 cm²
- Maximum
 - 15,000 dpm alpha/100 cm²
 - 15,000 dpm beta-gamma/100 cm²
- Removable
 - 1,000 dpm alpha/100 cm²
 - 1,000 dpm beta-gamma/100 cm²

Also

5 μ R/hr at 1 meter

DP Section 4 – Unrestricted Release Criteria

Soil

- Natural Uranium – 10 pCi/g
- Enriched Uranium – 30 pCi/g
- Depleted Uranium – 35 pCi/g
- Thorium – 10 pCi/g

Also

10 μ R/hr at 1 meter (Average)

20 μ R/hr at 1 meter (Maximum)

DP Section 4 – Unrestricted Release Criteria Groundwater

NRC Criteria

- Uranium – 180 pCi/L
- Burial Area #1 – 201 µg/L
- Western Area – 119 µg/L
- Technitium-99 – 3,790 pCi/L

DEQ Criteria

- Uranium – (30 µg/L)
- Tc-99 – 900 pCi/L
- Nitrate – 22.9 mg/L
- Fluoride – 4 mg/L

DP Section 10 – Management & Organization

Key Management Positions

- Trust Administrator
- Trustee Project Manager
- Radiation Safety Officer
- Quality Assurance Coordinator

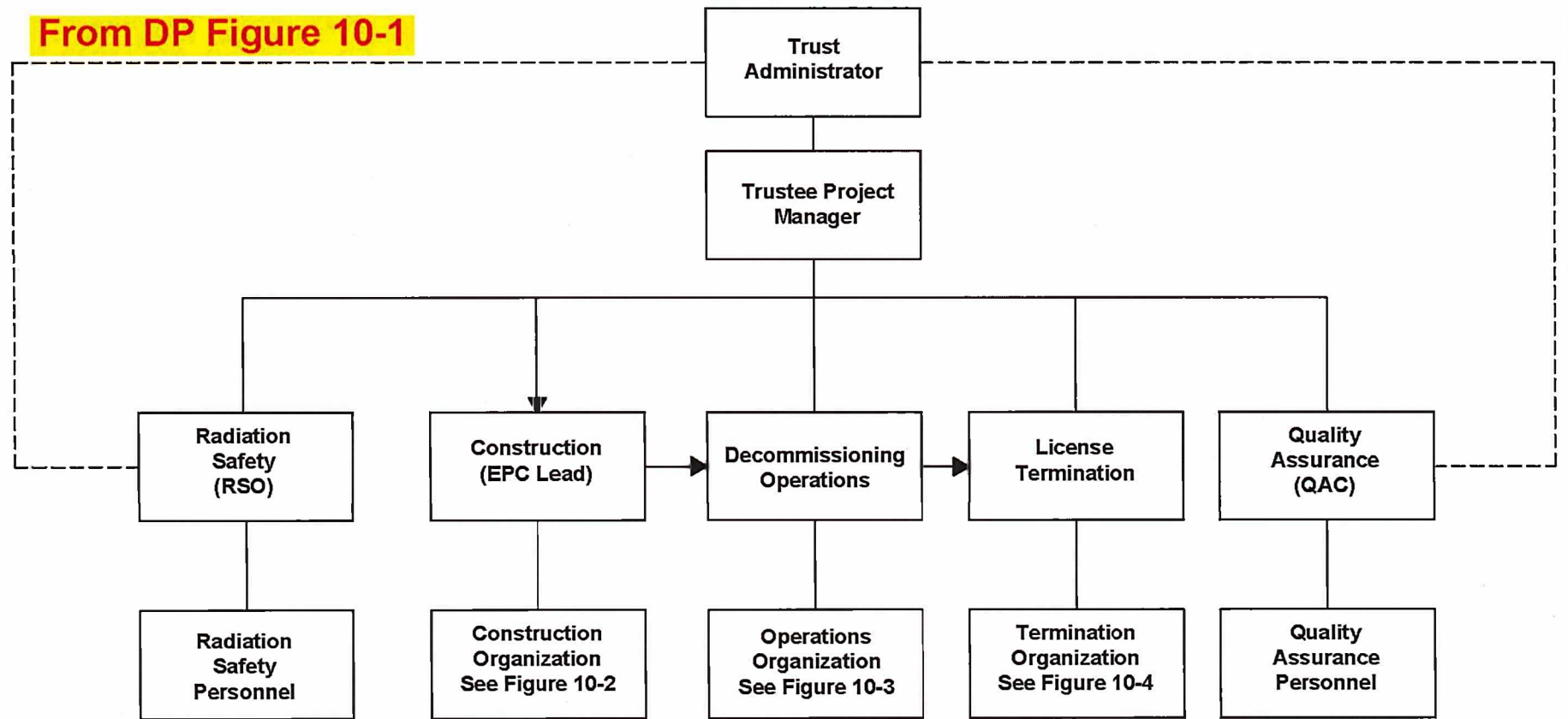
Also

- Activity Leaders
- Project Managers
- Operations Supervisor

Decommissioning Organization Overview

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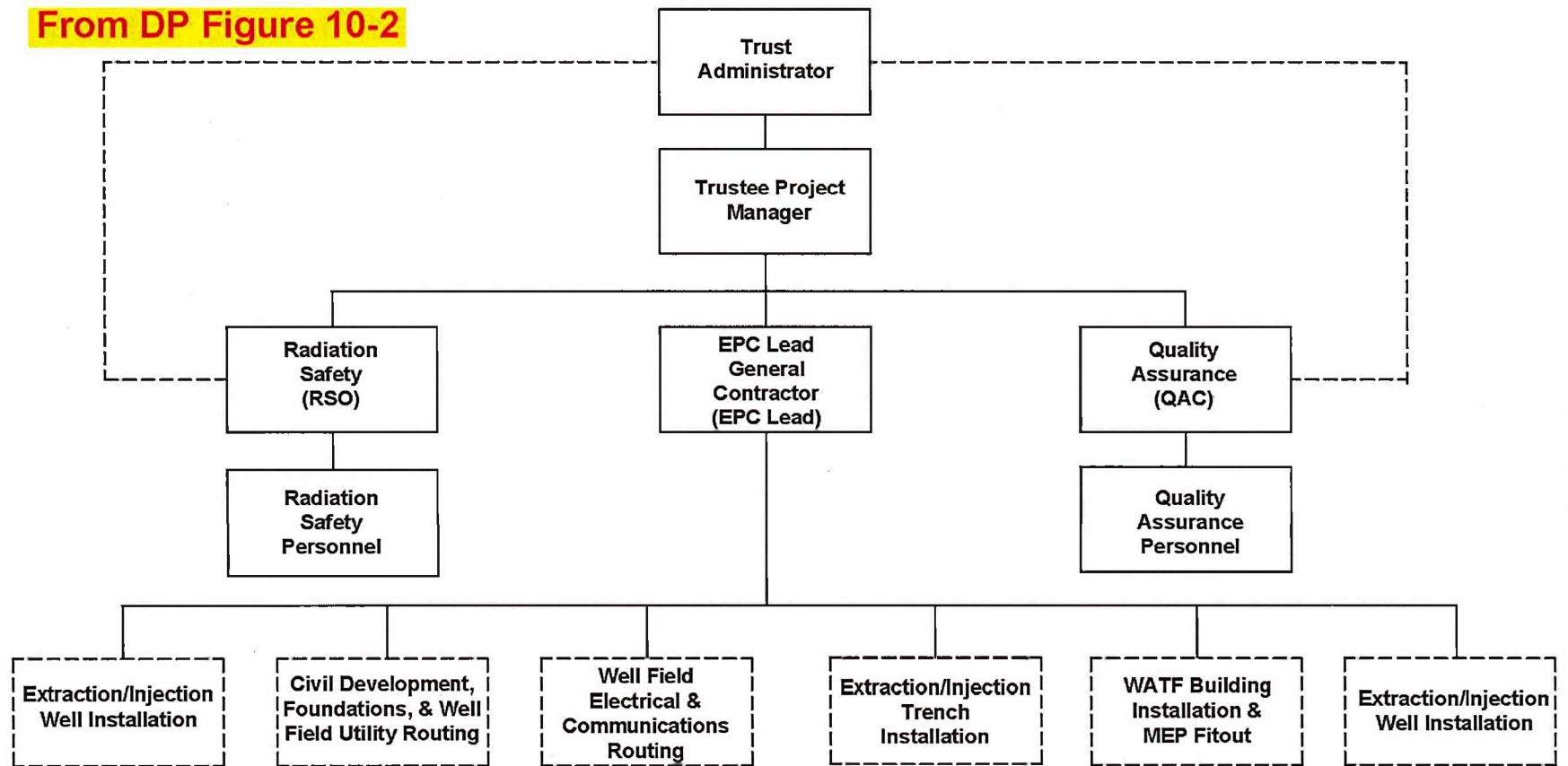
From DP Figure 10-1



Decommissioning Construction Organization

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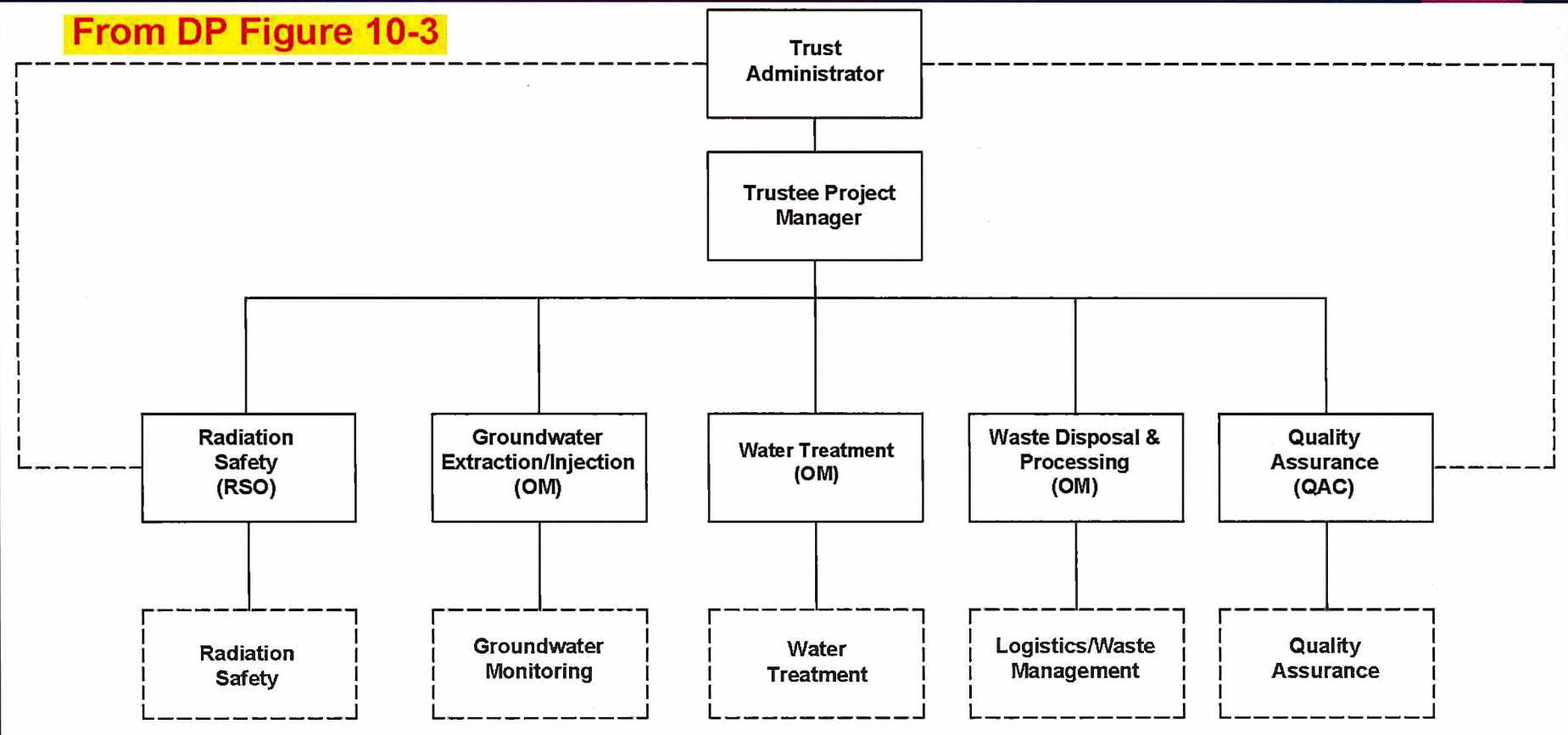
From DP Figure 10-2



Decommissioning Operations Organization

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From DP Figure 10-3



License Termination Organization

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From DP Figure 10-4

