

FE/2012/Z/80/09
August 1980

PIPELINE GAS DEMONSTRATION PLANT

Phase I
ABBREVIATED VERSION
DEMONSTRATION PLANT PROCESS DESIGN REPORT
SUPPLEMENT

VOLUME I

VOLUME III

MASTER

ROBERT J. EBY

ILLINOIS COAL GASIFICATION GROUP

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PREPARED FOR THE
UNITED STATES DEPARTMENT OF ENERGY
(ENERGY TECHNOLOGY, FOSSIL ENERGY, COAL CONVERSION)

UNDER CONTRACT NO. EF-77-C-01-2012

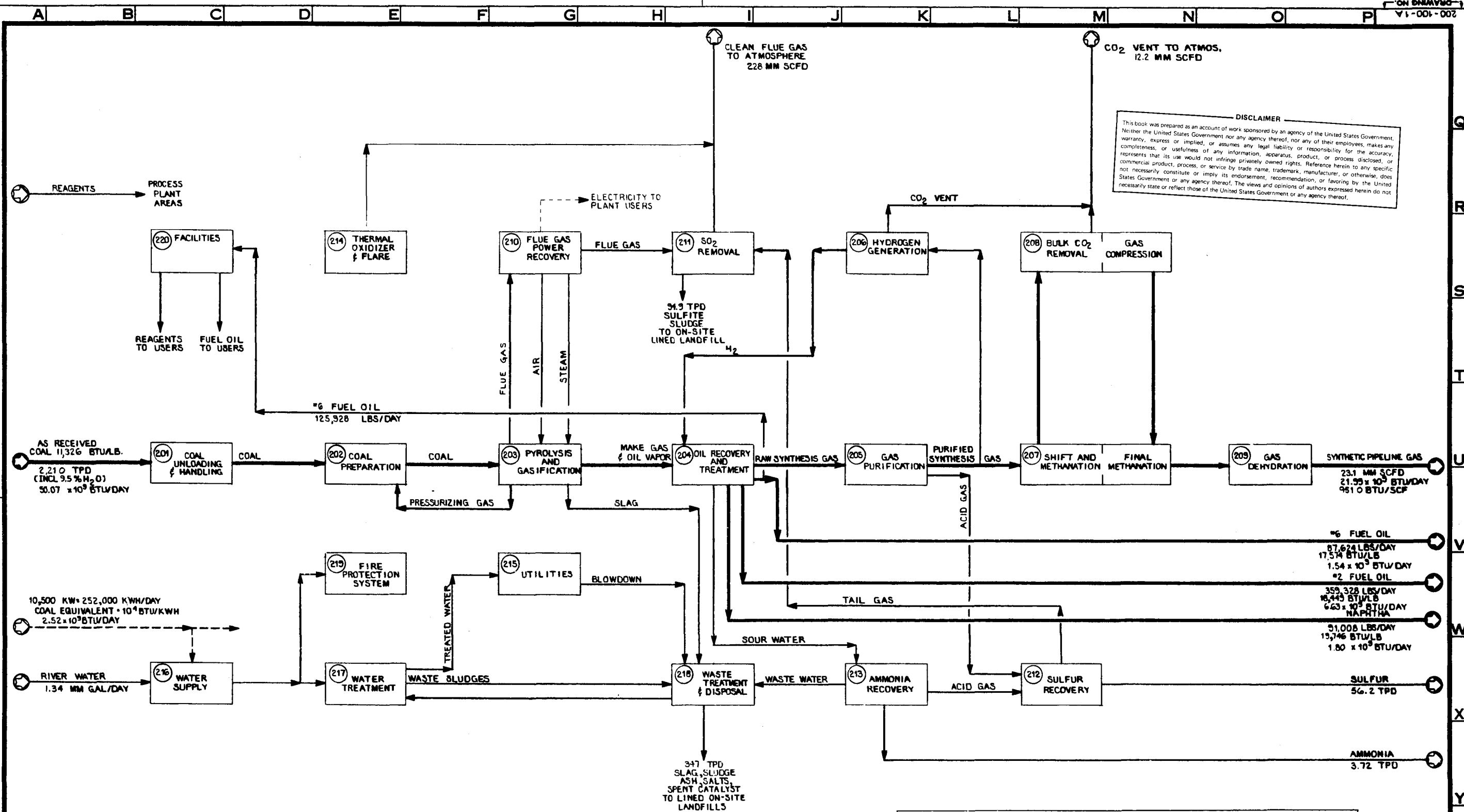
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DISCLAIMER

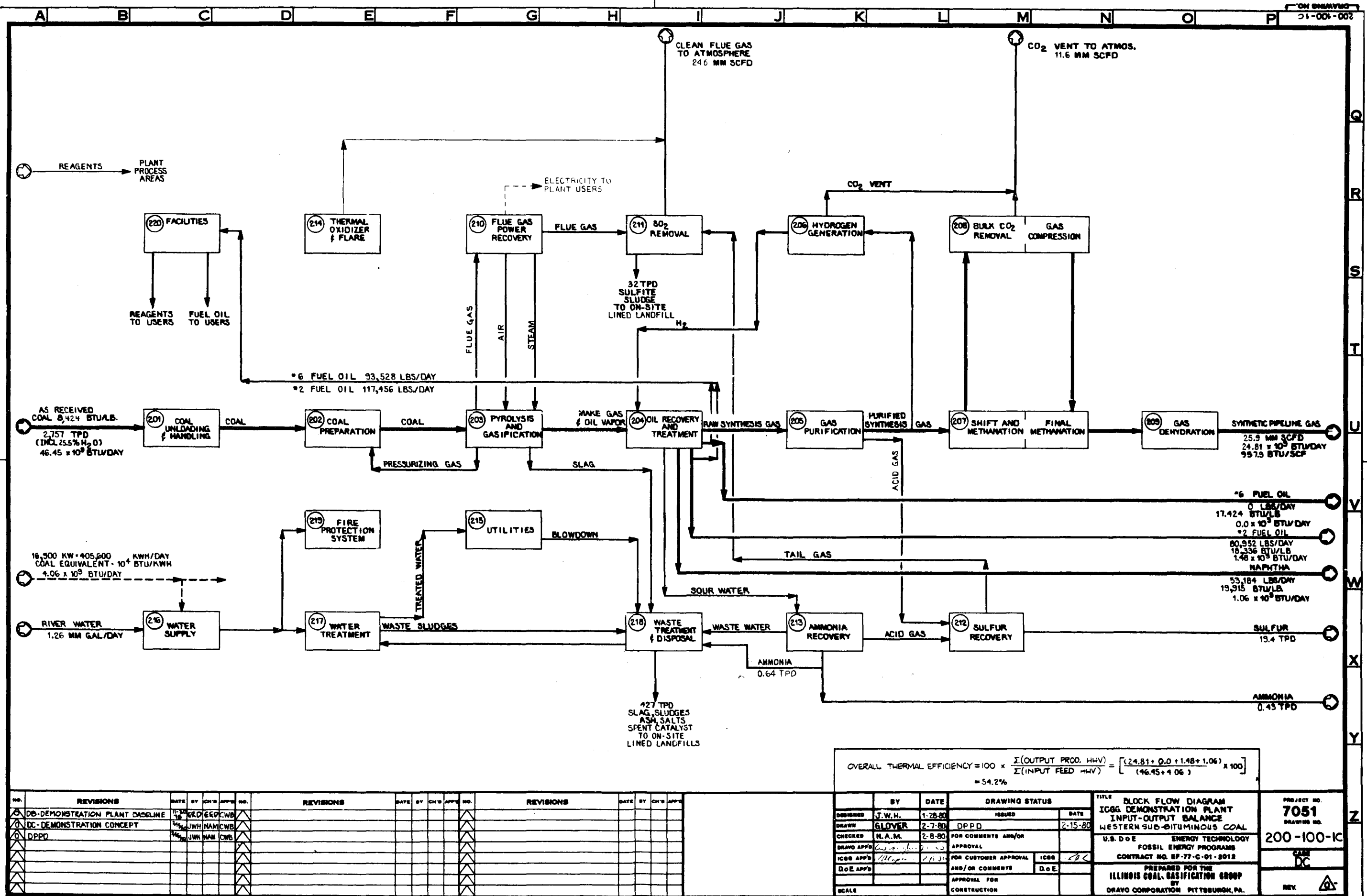
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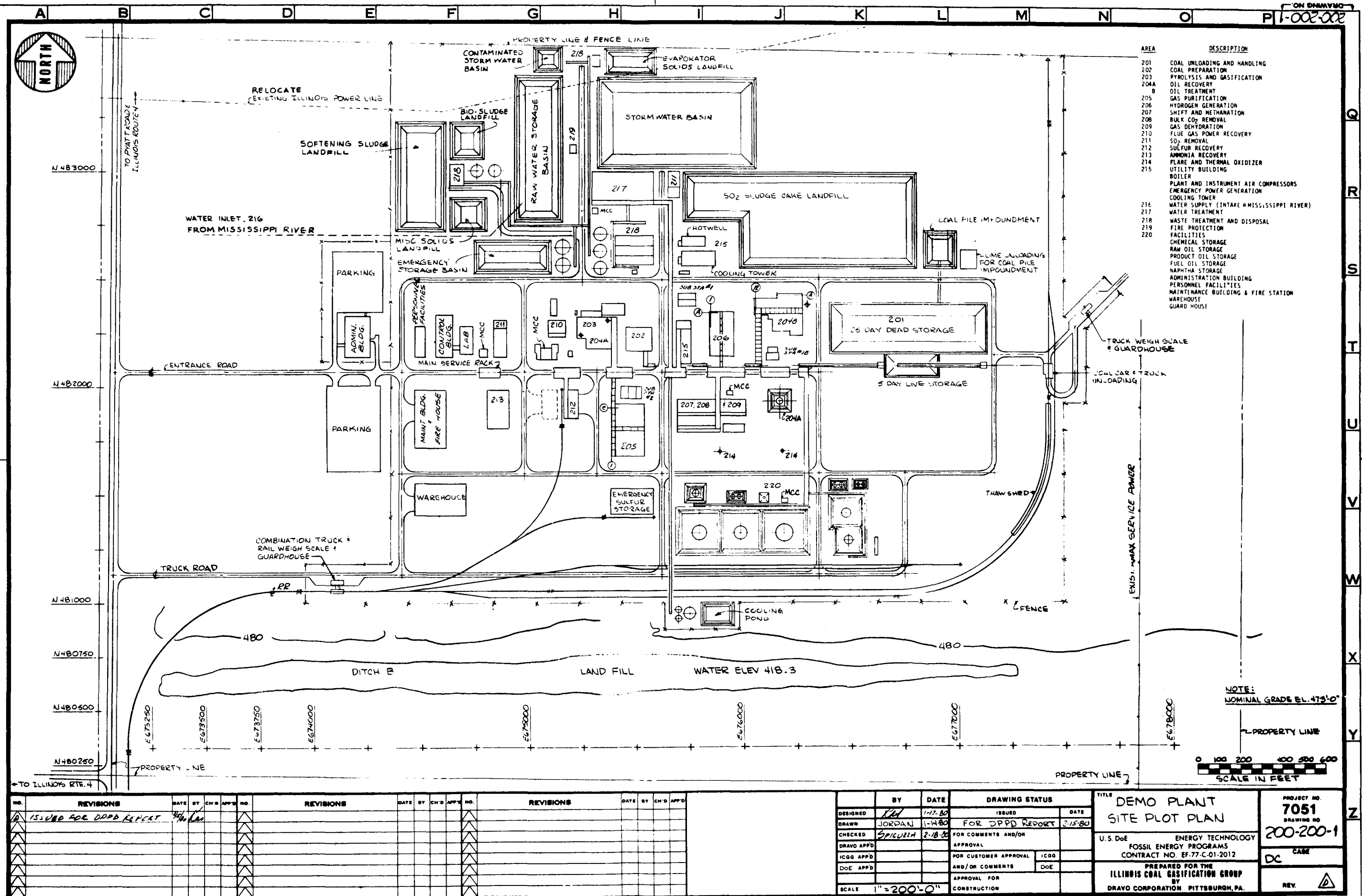


														OVERALL THERMAL EFFICIENCY = $100 \times \frac{\Sigma (\text{OUTPUT PROD. HHV})}{\Sigma (\text{INPUT FEED HHV})} = \left[\frac{(21.99 + 1.54 + 6.63 + 1.80)}{(50.07 + 2.52)} \times 100 \right]$ = 60.77%																											
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1	DB-DEMONSTRATION PLANT BASELINE				10/18/80	BERD	ERD	CWB	1									1																							
2	DC-DEMONSTRATION CONCEPT				11/15/80	JWH	NAM	CWB	2									2																							
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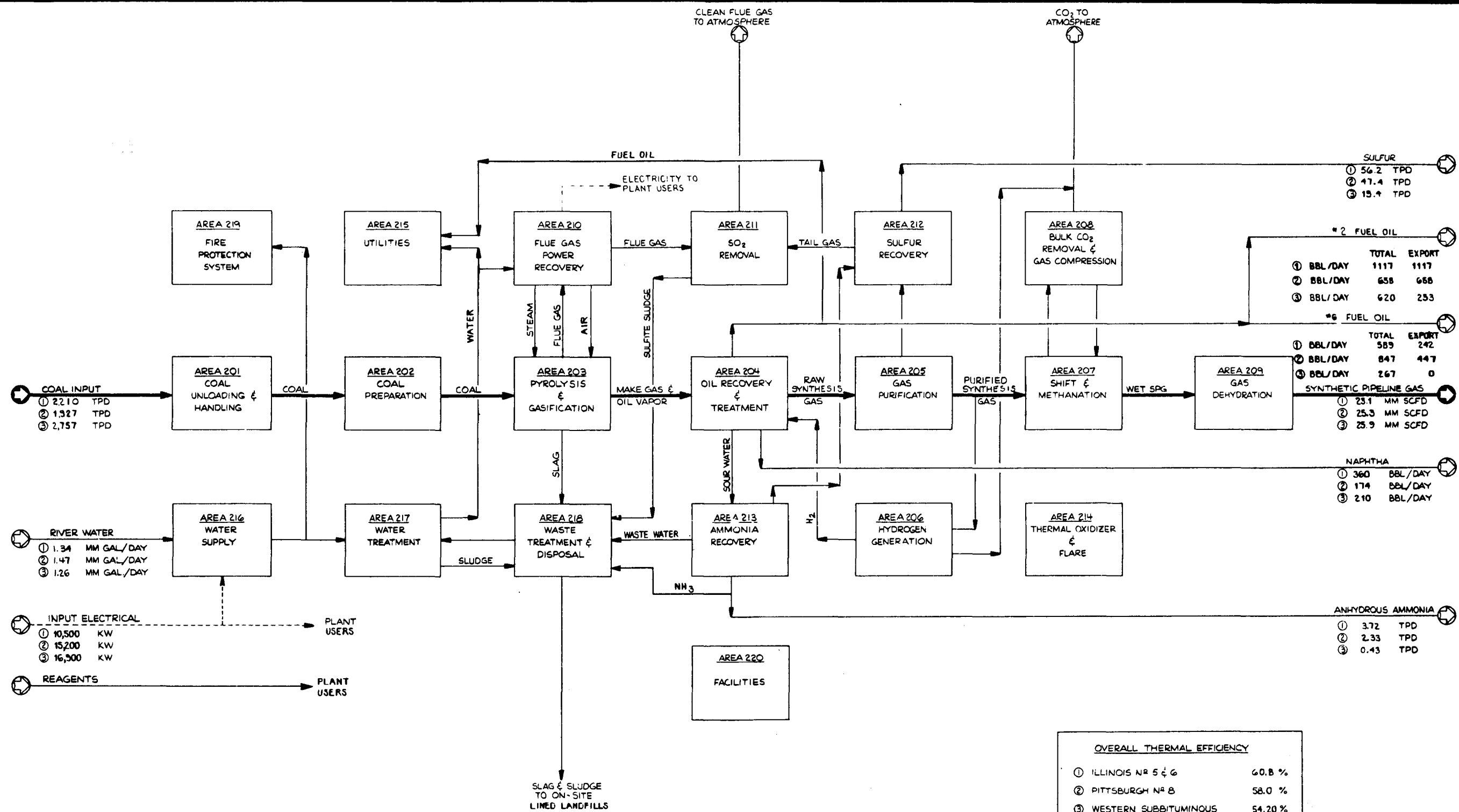
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DESIGNED			J.W.H.			1-28-80			ISSUED			DATE			7051		
DRAWN			GLOVER			2-2-80			DPPD			2-15-80			DRAWING NO.		
CHECKED			N.A.M.			2-4-80			FOR COMMENTS AND/OR						200-100-1A		
DRAVO APP'D			C. J. ...			2-15-80			APPROVAL						U.S. DOE ENERGY TECHNOLOGY		
ICGG APP'D			D. Cap...			2-1-80			FOR CUSTOMER APPROVAL			ICGG			FOSSIL ENERGY PROGRAMS		
DOE APP'D									AND/OR COMMENTS			DOE			CONTRACT NO. EF-77-C-01-2012		
									APPROVAL FOR						CASE		
SCALE									CONSTRUCTION						DC		
															REV.		
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BLOCK FLOW DIAGRAM		
ICGG DEMONSTRATION PLANT		
INPUT-OUTPUT BALANCE		
ILLINOIS SEAMS NO.5 & 6 COAL		
U.S. DOE ENERGY TECHNOLOGY		
FOSSIL ENERGY PROGRAMS		
CONTRACT NO. EF-77-C-01-2012		
PREPARED FOR THE		
ILLINOIS COAL GASIFICATION GROUP		
BY		
DRAVO CORPORATION PITTSBURGH, PA.		









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NO.	DATE	BY	CHK'D	APPR'D	NO.	DATE	BY	CHK'D	APPR'D	NO.	DATE	BY	CHK'D	APPR'D
1	11-30-78	N.A.M.			1	11-30-78	N.A.M.			1	11-30-78	N.A.M.		
2	12-20-78	GIANNELLA			2	12-20-78	GIANNELLA			2	12-20-78	GIANNELLA		
3	2-8-80	J.W.H.			3	2-8-80	J.W.H.			3	2-8-80	J.W.H.		
4	2-15-80	D.P.P.			4	2-15-80	D.P.P.			4	2-15-80	D.P.P.		
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9					9					9				
10					10					10				

DESIGNED	BY	DATE	DRAWING STATUS	ISSUED	DATE
N.A.M.	N.A.M.	11-13-78	ISSUED		
DRAWN	GIANNELLA	11-20-78	DPPD		2-15-80
CHECKED	J.W.H.	2-8-80	FOR COMMENTS AND/OR APPROVAL		
DRAVO APP'D		2-15-80	FOR CUSTOMER APPROVAL	ICGG	
ICGG APP'D		2-15-80	AND/OR COMMENTS	DoE	
DoE APP'D			APPROVAL FOR CONSTRUCTION		
SCALE					

TITLE	PROCESS CONCEPT ICGG DEMONSTRATION PLANT	PROJECT NO 7051
U.S. DoE	ENERGY TECHNOLOGY FOSSIL ENERGY PROGRAMS CONTRACT NO. EF-77-C-01-2012	DRAWING NO. FIG. 1.2.2-1
	PREPARED FOR THE ILLINOIS COAL GASIFICATION GROUP BY DRAVO CORPORATION PITTSBURGH, PA.	REV. DC

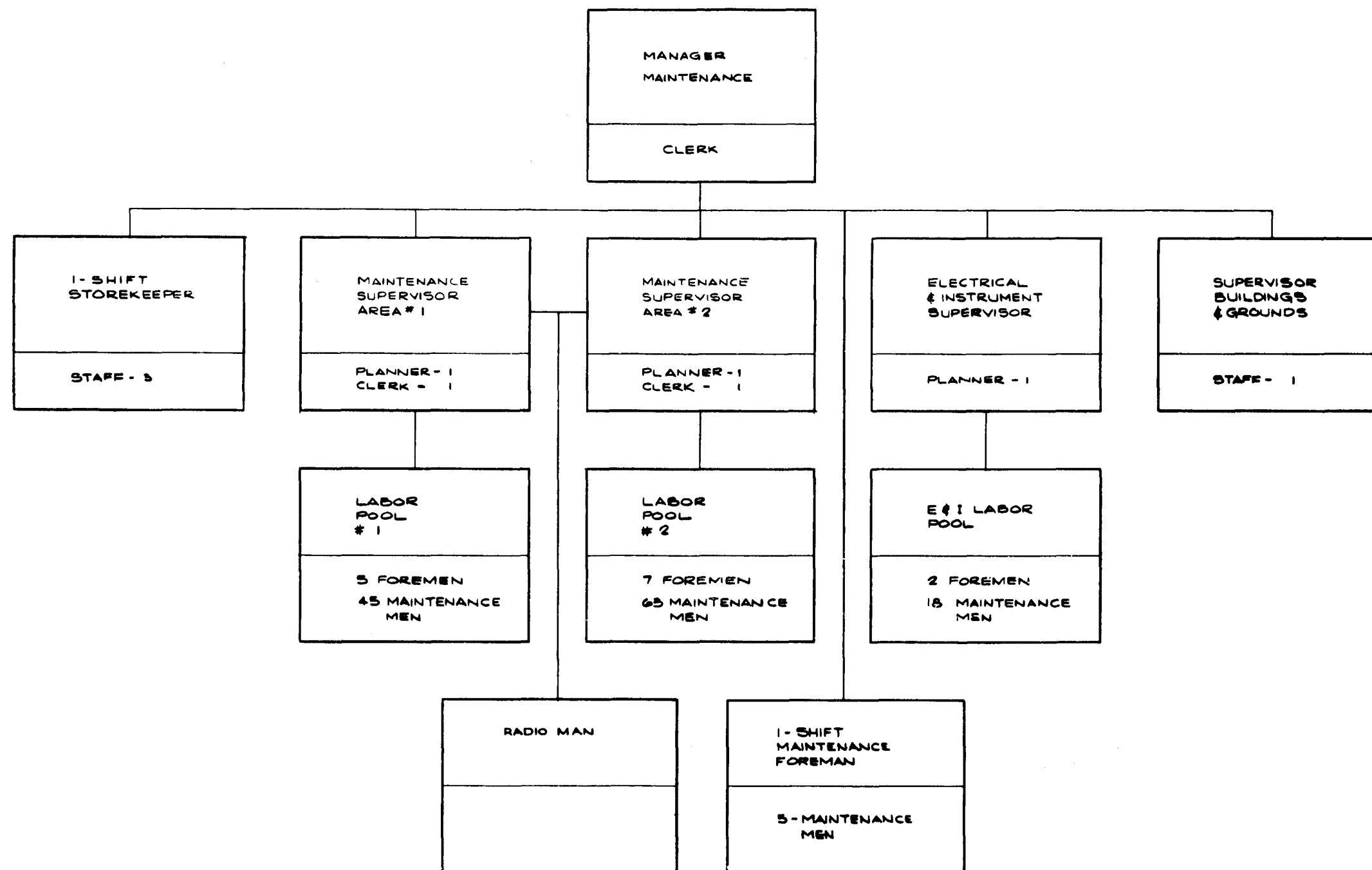


FIGURE 2.5.5-1
MAINTENANCE ORGANIZATION

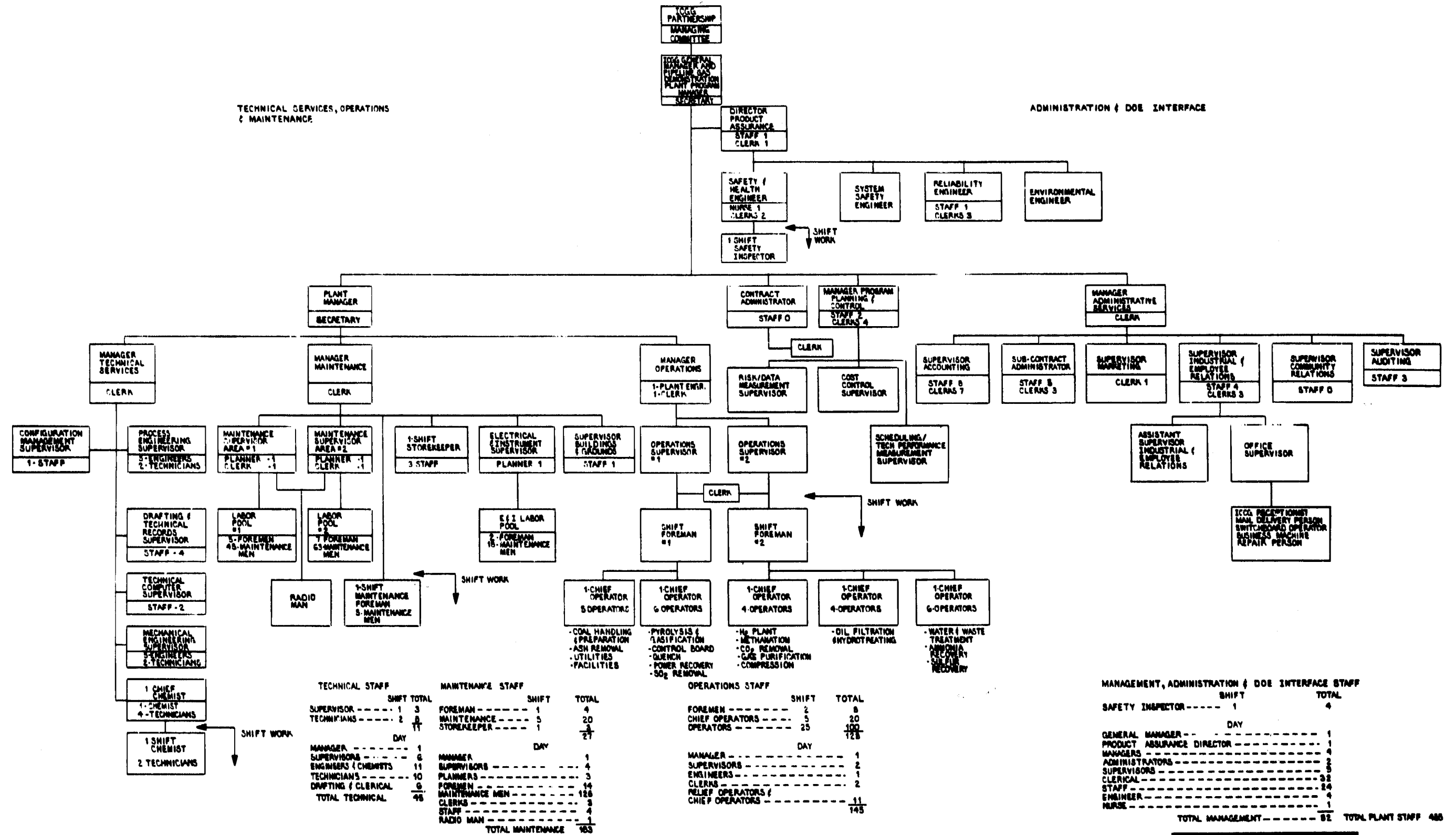


FIGURE 4.2.2-1
ICGG DEMONSTRATION PLANT
ORGANIZATION CHART