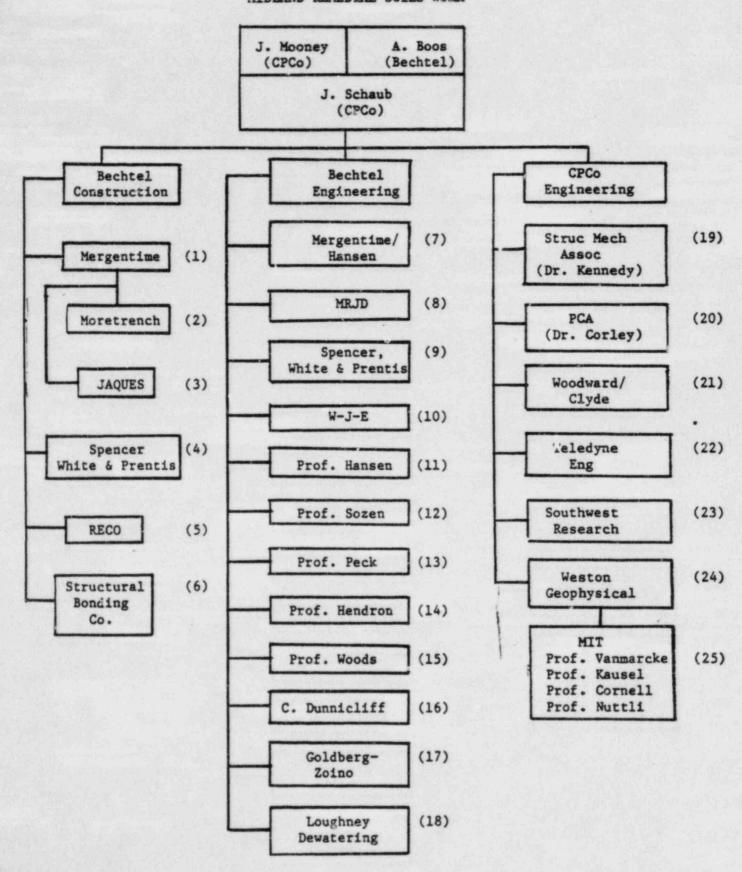
MIDLAND PROJECT

July 27, 1982 J. Kane 18/85

CP Co Project Office	Bechtel Project Management		Soil Project
Cook	Rutgers		Soils Remedial Mooney Boos Schaub
Bauman	Curtis	Engineering Swanberg	Jehnszuby Resident Emphi
		CP Co Design Review	
Miller	Davis	Construction Fisher	
		CP Co Construction Review	
Marguglio		Quality Meisenheimer	ن
	Daniels	Quality Control Blendy	
Techni	t Direction cal and Administrative t Coordination	Quality Assurance Horn	
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AND SUBCONTRACTORS FOR MIDLAND REMEDIAL SOILS WORK



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1.	Subcontractor	Performing underpinning of auxiliary building and FIVP foundation material replacement
2.	Subcontractor	Responsible for groundwater control in support of auxiliary building underpinning
3.	Subcontractor	Responsible for soils stabilization (if necessary)
4.	Subcontractor	Performing service water pump structure underpinning; also providing system for temporary support of utilities during fill replacement north of SWPS and CWIS
5.	Subcontractor	Has developed a proposal for and will relevel borated water storage tank 1T-60
6.	Subcontractor	Performed crack repair on BWST foundations
7.	Consultant	Providing input for design of auxiliary building underpinning and review anjor underpinning details of auxiliary building
8.	Consultant	Providing input for design of service water pump structure underpinning and review major underpinning details of auxiliary building and SWPS; also providing overview of construction at the Midland jobsite
9.	Consultant	Providing input for integrating SWPS underpinning and removal of soil in designated part of service water piping
10.	Consultant	Providing instrumentation of auxiliary building and SWPS to detect movement and measure strain of selected points; also developed procedures and performed crack mapping in auxiliary building and SWPS
11.	Consultant	Bechtel chief civil engineer's staff; reviews structural model, analytical technique and results of analysis for auxiliary building, SWPS, and BWST
12.	Consultant	Provides input to Bechtel regarding behavior of concrete, including variation of staffness due to cracking in concrete

13.	Consultant	Provided recommendations on remedial action for the diesel generator building and the general approach to permanent plant dewatering and underpinning
14.	Consultant	Provided recommendations on remedial action for the diesel generator building and the general approach to permanent dewatering and underpinning; provided testimonies on static and seismic stability, ECWR dikes, and the BWST soils aspects
15.	Consultant	Made dutch cone and shear wave velocity measurements; performed dike stability calculations and settlement calculations
16.	Consultant	Provided consulting services on instrumentation for diesel generator building
17.	Subcontractor	Performed laboratory and field soil tests and installed and monitored instrumentation
18.	Consultant and Subcontractor	Provided consulting and subcontract service on site temporary dewatering; subcontractor to SW&P on SWPS temporary dewatering
19.	Consultant	Provided overview of design basis, seismic criteria, and dynamic models for seismic analyses; separately performed seismic margin review for site specific response spectra earthquake
20.	Consultant	Performed evaluation of cracks in concrete structures, specifically, auxiliary building, FIVP, SWPS, and DGB under existing conditions, their effects on structural integrity and serviceability; will also be responsible for evaluation of concrete cracks during underpinning
21.	Subcontractor	Performed soil investigation through boring programs and developed laboratory test results
22.	Consultant	Overall consultant on underground piping; developed acceptance criteria for same
23.	Consultant	Performed pipe profile measurements
24.	Consultant	Developed site specific response spectra; performed seismic hazard analysis and soil amplification studies through fill material
25.	Consultants	Provide consulting services to Weston Geophysical for soil amplification, studies, seismic hazard analysis and seismology