Statement of Work for

Interagency Agreement
Between
U.S. Army Corps of Engineers
North Pacific Division
and
Department of Energy
Bonneville Power Administration

Part A General

A.1 Goal of this contract.

This Interagency Agreement, entered into between the U.S. Army Corps of Engineers (Corps), North Pacific Division (NPD) and the Department of Energy (DOE), Bonneville Power Administration (BPA), shall express the terms and conditions under which NPD and BPA will cooperatively develop and maintain the Pacific Northwest Hydropower Data Base and Analysis System. The goal of this Agreement is to establish the respective roles and responsibilities of the NPD and BPA; to describe the work task assignments and identify the deliverable products; and to describe the mechanism for payment for services rendered.

A.2 Background

As part of its continuing program to improve assessment of hydroelectric development potential of Northwest rivers, the Northwest Power Planning Council (Council) and the Bonneville Power Administration (BPA) began simultaneous evaluation and assessment studies in 1984 of (1) potential hydropower sites, and (2) characteristics of Northwest streams that would be affected by hydropower development.

Potential hydropower sites in the region are being identified, mapped, and described in a cooperative study by the Council, BPA and the Corps. Data for all identified hydropower sites in Corps, Federal Energy Regulatory Commission (FERC), and state records continue to be compiled. Each site has been classified into one of eight general types: (1) Run-of-river, (2) Diversion, (3) Run-of-river with Diversion, (4) Storage, (5) Storage Reservoir with Diversion, (6) Canal, (7) Conduit, and (8) Off-Stream or Pumped Storage, with additional subcategories. For each project type, the Pacific Northwest Data Base, which is part of the Pacific Northwest Hydropower Data Base and Analysis System (NWHS), includes data on existing, existing with power, and undeveloped project sites. Data for these sites can be displayed graphically on maps with the resource data superimposed.

The NWHS was developed by the Corps NPD in cooperation with the Council and with the assistance of the Council and BPA. It was developed in response to Section 14.3 of the Council's Two-Year Action Plan of the Northwest Conservation and Electric Power Plan, 1983, to provide a regional data base of existing and potential hydropower projects. The data base is used by the

Council and BPA in preparing power resources supply forecasts. In addition, the data base provides the site-specific data needed to implement the Council's Protected Areas Program [1987 Columbia River Basin Fish and Wildlife Program, Section 1103(c)] and BPA's Long-Term Intertie Access Policy. The NWHS is used to assist BPA's Acquisition Process and Options Programs.

The data base consists of site-specific data on hydropower projects currently in the Federal Energy Regulatory Commission (FERC) licensing/exemption process, existing projects, and previously identified sites without FERC status. These latter projects and sites consist of (1) existing federally owned power projects (federal projects are not subject to FERC jurisdiction); (2) existing federally owned non-power projects with power potential; (3) existing non-federal dams and other water control structures with power potential, but which have not been proposed for development through an application filed with FERC; and (4) undeveloped sites for which power potential has been previously studied.

The initial data compilation for projects with FERC licensing/exemption status was completed using information contained in applications filed by the developer with FERC. The initial data compilation for non-FERC or National Hydropower Study (NHS) projects was accomplished based on the findings of the National Hydropower Study which was completed by the Corps of Engineers in September, 1981. More recent information for the NHS projects is compiled and incorporated in the database as it becomes available. Data on newly proposed FERC and non-FERC (NHS) projects are periodically added to the data base in order to maintain the currency of information. The NWHS has been incorporated into BPA's Pacific Northwest Environmental Data Base.

A.3 Location of Project

The work in support of this project will be primarily performed at the U.S. Army Corps of Engineer's North Pacific Division offices or the Portland District offices in Portland, Oregon. Some work may also be performed at other Corps District Offices in Seattle, Washington; Walla Walla, Washington; Sacramento, California; and Omaha, Nebraska. Some work related tasks may be performed at the Eastside Federal Complex or Council offices in Portland, Oregon.

A.4 Government Furnished Property/Services

The Bonneville Power Administration shall provide for storage of and access to the official files of FERC hydro project information. BPA shall provide for storage of and access to the files of non-FERC hydro project information developed by BPA and others to support maintenance of the data base portion of the NWHS. BPA will prepare input information, to be provided in diskette form, for use by the Corps in updating and maintaining the data base portion of the NWHS. In general, the need for BPA property or other BPA services is not anticipated. However, use of any equipment, facilities, and/or services provided by BPA will be authorized by and coordinated through the COTR to support specific tasks requested by BPA and to be performed by the Corps.

A.5 Contractor Furnished Property or Services

The Corps is expected to provide all other property, facilities, and services, including Corps staff travel arrangements, in support of this Agreement, except those mentioned under Section A.4 above.

A.6 Definitions

The following unusual terms or acronyms are used within this work statement and are defined within this section.

Form 1 is the name given to the output report from the NWHS maintenance process. It contains a listing of all hydropower project data item values.

GETUSGS GETUSGS is the name given to a computerized data file containing stream gage identification, location, stream flow characteristics, and other pertinent information.

Part B Technical Approach/Tasks

B.1 General Requirements

The Corps shall work cooperatively with BPA to accomplish the successful data base development and maintenance, and provide for access to and use of the NWHS. The Corps will interact with and obtain general guidance from the Chief, Generation Analysis and Technical Support Section through contact with the Section staff. Established procedures are followed for most tasks. Other tasks may require consultation with and direction from the COTR. More than one assignment may be underway concurrently. Some innovation may be required to determine the most efficient way to accomplish a task.

The Corps shall provide those services necessary to successfully accomplish NWHS data base editing and maintenance; perform data quality review; perform data development of computer generated data elements; provide data base support software development, maintenance and operation; prepare tape copies of the updated data base for distribution to BPA and the Council; provide consultation and training pertaining to data item definition, description, selection and use; and provide NWHS access for data retrieval and reporting. Attendance at project coordination and technical meetings held at the Eastside Federal Complex or Council offices in Portland, Oregon may be required.

B.2 Methods to be Used

The Corps will work primarily with BPA and BPA's NWHS data development support services Contractor, but may have contact with the Council and others involved in the hydropower site data base maintenance, data analysis, and data file preparation and processing.

It is expected that the near-term work will address both the on-going data base development and maintenance to provide currency to the information; and the needed review and update of the already included hydro project information which is incomplete or erroneous.

B.3 Specific Requirements

The Bonneville Power Administration shall review hydro electric project application and project revision information obtained from the Corps, FERC and others, for data describing Pacific Northwest regional hydro project identification and location, status, physical and hydrologic characteristics, costs, power data and environmental information. BPA shall transform this information into a format compatible with the Pacific Northwest Hydropower Data Base and Analysis System, and prepare a diskette containing the formatted input ready for use by the Corps in the NWHS data base maintenance process. BPA shall continue to preview the project update information to provide a measure of quality assurance before submitting the data to the Corps for processing. After receiving the NWHS data base maintenance products from the Corps, BPA shall compare the output from the Form 1 report (see Section A.6 Definitions), to the official file information as a measure of data quality assurance. In addition, BPA shall continue the current efforts to improve the quality of the NWHS data base by performing a full coding review of all projects contained within the data base.

The Corps will provide for the involvement of the appropriate agency engineering, economics, computer programmer or systems analyst, and computer operations staff within their organization to accomplish their support tasks. The Corps will provide services to BPA through the performance of the following tasks:

- Task 1 Upon receipt of the BPA prepared data diskettes, the Corps shall implement the data base maintenance process.
 - Review the project input information for reasonableness, completeness and accuracy, paying particular attention to the project physical and site hydrologic characteristics data.
 - Utilizing input provided by BPA, FERC and others, the Corps shall initiate the creation process to add new project information to the NWHS; delete duplicate records for the same site and developer; update changes in the project status; complete data compilation for new projects; and revise site-specific data to update the project record.
 - When developer supplied input is missing, prepare and perform computer runs using the Hydropower Analysis Model (HAM) to obtain data elements to complete project identification, physical and hydrological characteristics, power data, and associated cost information.
 - Review and affirm the HAM generated information, including stream gage selection.
 - O Perform the update maintenance of the NWHS using BPA supplied diskette data input and HAM analysis output.
 - Review the maintenance update results to affirm the project update operation was successfully completed.
 - O Provide BPA with the computer output updated Form 1 report, copies of the maintenance run output, and the original BPA supplied project input data diskettes.
- Task 2 The Corps shall provide software support to incorporate product enhancements/improvements or other software modifications into the Hydropower Analysis Model and Pacific Northwest Hydropower Data Base and Analysis System. The Corps shall provide software support to create needed NWHS data base screening logic and supplemental informational reports.
- Task 3 Provide routing of all FERC documents pertaining to region (all of Montana, Idaho, Oregon and Washington) to BPA, including documents from the Corp's South Pacific Division (SPD) and Missouri River Division (MRD), within 2 weeks of date of documents.

- Task 4 On a monthly basis, but more frequently if requested by the COTR, produce one copy each of the updated tape of the NWHS data base to BPA and the Council. The BPA tape copy should contain projects all within the four state area (Montana, Idaho, Oregon and Washington). The Council tape copy should contain all the projects on the NWHS.
- Task 5 Update federal project data (engineering) for inclusion in NWHS.
- Task 6 Assist with the merging of NHS projects into NWHS.
- Task 7 Provide HAM, including GETUSGS (see Section A.6 Definitions), software maintenance and revision as needed.
- Task 8 Provide BPA technical consultation and analysis systems training as determined by the COTR.
- Task 9 Create and provide BPA with documentation of analytical tools, and maintenance and editing routines used in support of the HAM and NWHS process.
- Task 10 Create and provide HAM documentation to BPA and Council.
- Task 11 Update NWHS Data Items Description Manual (DIDM) documentation and circulate to BPA, Council and other NWHS users.
- Task 12 Assist with NWHS data base content and structure review.
- Task 13 Update Form 1 report and NWHS data item format and arrangement as determined by the COTR.
- Task 14 Provide user access to NWHS.
- Task 15 Provide NWHS user training seminars, out reach and support.

B.4 Deliverables

At the conclusion of each NWHS maintenance processing, the Corps shall submit the following materials to BPA:

- Maintenance and Edit processing Job Control Language (JCL).
- Computer output listings from the Edit and Maintenance process.
- Computer output Form 1 for updated projects.
- Computer output listings, as appropriate, from any associated Hydropower Analysis Model (HAM) runs.
- O BPA provided data input diskettes used for the data base maintenance processing.

BPA expects to submit no more frequently than daily updates to the Corps to implement project status changes and the NWHS data base review full coding effort. The Corps is expected to process NWHS data base edit and maintenance runs within two days of receipt of the diskette from BPA to minimize backup.

As a minimum, on a monthly basis, the Corps shall provide BPA and the Council with one copy each of the updated tape of the NWHS data base, including all data changes sent to the Corps. The BPA tape copy should contain projects within the four state area (Montana, Idaho, Oregon and Washington). The Council tape copy shall contain all the projects on the NWHS. Updated tapes may be provided more frequently based on the volume/importance of project updates.

Maintain a listing of NWHS users, including the user contact name, mailing address, and telephone number. Provide a copy of this list to BPA and the Council quarterly or upon request by the COTR. Provide copies of user information requests and the Corps response to the user, to BPA as they are received and processed.



Bonneville Power Administration P.O. Box 3621 Portland, Oregon 97208-3621

MAY 1 5 1990

In reply refer to: SRPA

Mr. Ken Boire U.S. Army Corps of Engineers North Pacific Division P.O. Box 2870 Portland, OR 97208-2870

Dear Mr. Boire:

Subject: Modification A004, Interagency Agreement No. DE-A179-89BP02108,

Pacific Northwest Hydropower Data Base and Analysis System

Enclosed are three copies of the subject agreement. If the terms and conditions are acceptable, please verify blocks 7 and 8, sign in block 20 on all three copies, and return them by May 16, 1990. An executed copy of the agreement will be returned to you.

Beginning May 21, 1990, the new Contracting Officer for this Interagency Agreement will be A. Ann Scholl, mail symbol SRPA, phone (503) 230-3789.

Sincerely,

Sandra A. Kageler Contracting Officer

(10-89) (Previously BPA 1358 & 1270.01)

U.S. DEPARTMENT OF ENERGY – BONNEVILLE POWER ADMINISTRATION **AGREEMENT**

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Bonneville Power Administration P.O. Box 3621 Portland, Oregon 97208-3621

In reply refer to:

SRPA

APR 3 1990

Mr. Ken Boire U.S. Army Corps of Engineers North Pacific Division P.O. Box 2870 Portland, OR 97208-2870

Dear Mr. Boire:

Subject: Modification M003 of Interagency Agreement No. DE-AI79-89BP02108,

Pacific Northwest Hydropower Data Base and Analysis System

Enclosed is your fully executed copy of the subject modification.

If you have any questions, please call me at (503) 230-3788.

Sincerely,

George S. McGowan Contracting Officer's

Representative

BPA F 4220.31 (10-69) (Previously BPA 1398 & 1270.01)

U.S. DEPARTMENT OF ENERGY – BONNEVILLE POWER ADMINISTRATION AGREEMENT

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Bonneville Power Administration P.O. Box 3621 Portland, Oregon 97208-3621

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in reply refer to:

SRPA

Mr. Ken Boire U.S. Army Corps of Engineers North Pacific Division P.O. Box 2870 Portland, OR 97208-2870

Dear Mr. Boire:

Subject: Modification MOO2, Interagency Agreement No. DE-AI79-89BPO2108,

Pacific Northwest Hydropower Data Base and Analysis System

Enclosed are three copies of the subject agreement. If the terms and conditions are acceptable, please verify blocks 7 and 8, and sign in block 21 on all three copies and return them by February 15, 1990. An executed copy of the agreement will be returned to you.

Sincerely,

Sandra A. Kageler Contracting Officer

BPA F 4220.31 (10-89) (Previously BPA 1398 & 1270.01)

(VS2-SRPA-7415m)

U.S. DEPARTMENT OF ENERGY – BONNEVILLE POWER ADMINISTRATION AGREEMENT

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BPA F 4220.31 (10-89) (Previously BPA 1398 & 1270.01)

(VS2-SRPA-7415m)

U.S. DEPARTMENT OF ENERGY – BONNEVILLE POWER ADMINISTRATION

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	1/2				21.	AT THEYED BY (SIGNATU	19)	DATE	
	James /) Kggc	Feb 14, 1990	B					
¢	NAME & TIPLE (Type or print)	—— <i>U</i>		₽	NA	ME/& TITLE (Type or pr	int)		
C-PAN	JAMES B. ROYCE, C	olonel. Corps	of Engineers	A	0	Sandra A.			
Ñ	Deputy Division E		J		1	Contractin			
7.		•		3	4		_		

BPA F 4220.31 (10-89)

U.S. DEPARTMENT OF ENERGY - BONNEVILLE POWER ADMINISTRATION

(Previously BPA 1398 & 1270.01)

AGREEMENT

1.	AGREEMENT NO.	2. AGREEMENT TYPE		3. MODIFICATION NO.	4. EFFECTIVE DATE	5. PROCUREMENT REQUEST NO.
		∟X Interagency ∟_ Intergovernr	nent	al	Same As	<u>. </u>
	<i>E</i> -A179-89BP02108	L Intraagency L Customer		M002	Block 21	
1	6. ORGANIZATION AND ADDRESS		Т	9. ORGANIZATION AND AD		
1.	U.S. Corps of En	gineers		U.S. Denar	tment of Energ	11/
8	North Pacific Di		S			stration - SRPA
S	P.O. Box 2870		8	P.O. Box 36		diadon - SM-A
U	Portland, OR 97	208-2870	U		regon 97208	'
E	,		E	Portiana, C	negon 97206	
D	7. TECHNICAL CONTACT	PHONE NO.	D	10. BPA TECHNICAL CONTA	ACT	PHONE NO.
T	Thomas White	1	В	Ron Holman		(503) 230-3444
o	Thomas L. White 8. ADMINISTRATIVE CONTACT	PHONE NO.	Y	11. BPA ADMINISTRATIVE	CONTACT	PHONE NO.
İ	Ken Boire	326–3830				(503) 230-3788
12.	THIS AGREEMENT WAS NEGOTIATED	PURSUANT TO	13.	George McGo AGREEMENT EFFECTIVE F	DWOLL	(303) 230-3766
			"		TO THE THE DESCRIE	- ONTIE
Į.	X 31 U.S.C. 1535 (Federal)					
	16 U.S.C. 832a(f) (Custo	mer)				
14	TITLE AND BRIEF DESCRIPTION OF	WORK TO BE PERFORMED UNDER THIS AGREEMEN	F. 00	CHMENTS WHICH ARE ATT	CHED TO AND SECS.	AS A DART OF THE ACCESS
'-						
	PACI	FIC NORTHWEST HYDROPOWER D	AI	H RASE AND ANA	117272 2121F	<u>-M</u>
	This modification period 30 days to	is written as a no-cost t March 17, 1990.	ime	e extension to	extend the	performance
		·				
	ALL OTHER TERMS A	ND CONDITIONS REMAIN THE S	AME	•		
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		r Customer Agreement, the provisions on	he r	everse of this form are	a part of the Agr	eement.
15.	AMOUNT TO BE PAID BY BPA		1	AMOUNT TO BE PAID TO BE	PA	
- :	\$ 70,000.00 NTE			\$		
17.	SUBMIT INVOICE TO:		18.	ACCOUNTING INFORMATIO	N (BPA use only)	
	Ron Holman - RMG	3		RMGB 25	GNL	T31129
				NO CHANGE	•	
	Bonneville Power A	dministration	19.	SUBMIT INVOICE TO:	······································	
	P.O. Box 3621		N/	AME		
	Portland, Oregon 9	7208		÷		
	, ,		AL	DDRESS		
<u> </u>	20. APPROVED BY (Signature)	DATE	[27]	21. APPROVED BY (Signature	re)	DATE
		Feb 14, 1990				•
، خ ا	James /	U/ (A) Ce 160 14, 1990	В			
ç	NAME & TITLE (Type or print)		P	NAME/& TITLE (Type or pri	int)	
P	JAMES B. ROYCE C	olonel, Corps of Engineers		Sandra A. I		
C-PANT	Deputy Division E	ngineer		Contractin		
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GENERAL PROVISIONS - INTERGOVERNMENTAL AGREEMENTS

1. OFFICIALS NOT TO BENEFIT (BAG 52.203-1)

No member of or delegate to Congress, or resident commissioner, shall be admitted to any share or part of this agreement, or to any benefit arising from it. However, this provision does not apply to this agreement to the extent that this agreement is made with a corporation for the corporation's general benefit.

2. COVENANT AGAINST CONTINGENT FEES (BAG 52.203-5)

The Contractor warrants that no person or agency has been employed or retained to solicit or obtain this agreement upon an agreement or understanding for a contingent fee, except a bona fide employee or agency. For breach or violation of this warranty, the Government shall have the right to annul this agreement without liability, or at its discretion, to deduct from the price or consideration, or otherwise recover, the full amount of the contingent fee.

3. CONVICT LABOR (BAG 52.222-3)

The Contractor agrees not to employ any person undergoing sentence of imprisonment ini connection with performance of work under this agreement, except as provided by 18 U.S.C. 4082(c)(2) and Executive Order 11755, December 29, 1973.

4. EQUAL OPPORTUNITY

The Contractor shall not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin.

The Contractor shall take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, religion, sex, or national origin. Such action shall include, but not be limited to (i) employment, (ii) upgrading, (iii) demotion, (iv) transfer, (v) recruitment or recruitment advertising, (vi) layoff or termination, (vii) rates of pay or other forms of compensation, and (viii) selection for training, including apprenticeship.



Bonneville Power Administration P.O. Box 3621 Portland, Oregon 97208-3621

DEC 1 1989

In reply refer to:

SRPA

Mr. Ken Boire U.S. Army Corps of Engineers North Pacific Division P.O. Box 2870 Portland, OR 97208-2870

Dear Mr. Boire:

Subject: Modification MOOl of Interagency Agreement No. DE-AI79-89BP02108,

Pacific Northwest Hydropower Data Base and Analysis System

Enclosed is your fully executed copy of the subject modification.

If you have any questions, please call me at (503) 230-3788.

Sincerely,

Contracting Officer's

Representative

U.S. DEPARTMENT OF ENERGY - BONNEVILLE POWER ADMINISTRATION

BPA F 1270.01

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z-ev) reviously BPA 1398)		AGNEE	. 171			5. PROCUREMENT REQUEST NO.
. AGREEMENT NO.	2. AGREEMENTTYPE			1	Same as	S. PROGUNEMENT REQUEST NO.
	X Interagency	intergovernme	enta	al MOO1	Block 22	
E-AI79-89BP02108	L Intraagency	L Customer	,			
8. ORGANIZATION AND ADDRESS				9. ORGANIZATION AND AC		
U.S. Army Corps.	of Engineers		ı	U.S. Departmer	nt of Energy	CDDA
North Pacific Di	vision		s	Bonneville Pow	er Administration	on - SRPA
P.O. Box 2870			s	P.O. Box 3621		
Portland, OR 97	208-2870		ū	Portland, Orego	on 97208	
			E			
7. TECHNICAL CONTACT	PHONE NO.			10. BPA TECHNICAL CON		PHONE NO.
Thomas L. White	1		В	Ron Holman		(503) 230-3444
8. ADMINISTRATIVE CONTACT	PHONE NO.		Y	11. BPA ADMINISTRATIVE	CONTACT	PHONE NO.
Ken Boire	['] 326 - 38	30		George McGo		(503) 230-3788
THIS AGREEMENT WAS NEGOTIATE			13	. ACCOUNTING INFORMAT		
		933a (Other)		RMGB 25	GNL	T31129
31 U.S.C. 1535 (Federal	•	oozy (Other)		NO CHANGE		
16 U.S.C. 832a (f) (Cust						
A. TITLE AND BRIEF DESCRIPTION O	F WORK TO BE PERFORMED UN	DER THIS AGREEMEN	T; D	OCUMENTS WHICH ARE AT	TACHED TO AND BECO	DME A PART OF THIS AGREEMENT:
PAC	IFIC NORTHWEST HY	YDROPOWER DA	AT <i>F</i>	A BASE AND ANA	LYSIS SYSTE	<u>M</u>
This modification	is written as a	a no-cost ti	me	extension to	extend the	performance
period one year t	o February 15.]	L990.				
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ALL OTHER TERMS A	AND CONDITIONS RE	EMAIN THE SA	ME	•		٠.
ALL UTHER TERMS A	IND CONDITIONS IN					
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If this is an Intergovernmenta	d or Customer Agreement.	the provisions on	the	e reverse of this form	are a part of the A	Agreement.
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15. AMOUNT TO BE PAID BY BPA	•			\$		
\$ 70,000.00 NTE			+	18. ACCOUNTING INFORM	ATION	
17. SUBMIT INVOICE TO:	_			is. ACCOUNTING INFORM		
Ron Holman - RMG	₿					
			L			·····
Bonneville Power Adr	ninistration			19. SUBMIT INVOICE TO:		
P.O. Box 3621				NAME		
Portland, Oregon 972	208					
ruitianu, Ologon 372	= - -		_	ADDRESS		
20. AGREEMENT EFFECTIVE FROM	DATE IN BLOCK 4 UNTIL					
February 15, 199						
To ADDOVED BY (CICNATURE)		DATE	\dashv	22. APPROVED BY (SIG	GNATURE)	DATE
P 21. APPROVED BY (SIGNATURE)	DRJ '	•	į			
Lames &	5 Conco	1 Dec 89		B andul	Knaile .	12-1-39
			-	NAME & TITLE (TYPE	OR PRINT)	
161	,			Sandra A. K	//	
P 1	of Engineers			A Contracting		
A Colonel, Corps				Concracting	OLITOET	
Deputy Division	ı Engineer					
(V\$Z-SRPA-7024m)						•