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REQUIREMENTS/METHODS FOR
FARRAH - ERA POST SUBSYSTEM

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FOREWORD

This document specifies the requirements and methods for the POST Subsystem needed to support the FARRAH GDPS. Once it is put into operation, this same subsystem is intended to support URSALA and RAQUEL as well.

For now, it is assumed that the URSALA and RAQUEL systems will provide files for input to POST that use the same structure and format as those provided by the FARRAH FDPS. This simplifying assumption allows the POST software to be almost completely mission-independent.

* * * * *

This document presents methods applicable to FARRAH and as such constitutes partial satisfaction of sequence number A042 of Exhibit A to contract



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Revision B incorporates Revision Nos. 5-10 as indicated in Section IV, Revision Records.

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This issue incorporates Revision Nos. 11-16 as indicated in Section IV, Revision Records and eliminates the "Preliminary" status of the document.

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I. INTRODUCTION

The POST Subsystem provides the capabilities needed to prepare processed data for transmission and for history. Its inputs are the series-level data output by the automatic processors, plus related blip-level and burst-level data used for data certification. Its outputs are [redacted] transmission files and tapes, plus history files and tapes that are prepared for input to the history utilization (GRABAG) subsystem.

POST comprises jobs to perform the following functions:

- o Interactive editing and control ("ECON")
- o Beam file assembly ("IBUGS" and "ICERT")
- o [redacted] report generation ("IBUGS")
- o [redacted] report generation ("ISHIP")
- o [redacted] report generation ("IR167")
- o ELK list generation ("ILDF")
- o History collection and daily lists and summaries ("HIST")
- o History tape preparation ("TAPER")

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Figure 1 is a flow chart that relates the files and functions of the POST Subsystem. Note that the data flow shown here is for an "interim" system, to be used until such time as the URSALA and RAQUEL systems are converted to use the FARRAH file formats. Table A summarizes the transmission reports produced by POST.

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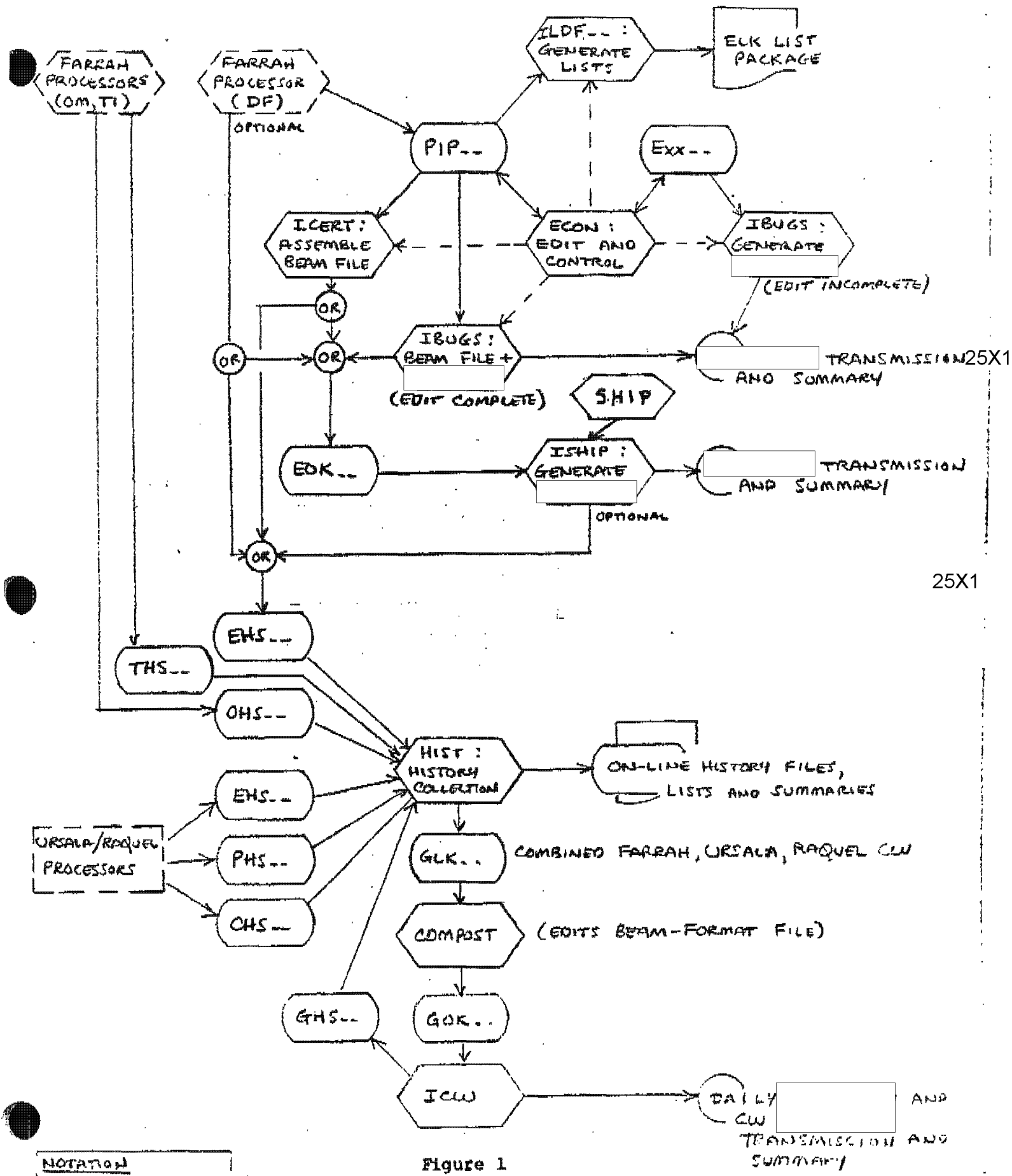


Figure 1

NOTATION

DATA FLOW →

JOB INITIATION - →

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Table A

SUMMARY OF AUTOMATICALLY-FORMATTED TRANSMISSION REPORTS

NOTE: As used here, "transmittable" means "passed minimum quality tests and not from a geographic area of no interest for reporting;" see Reference 4 for details. "Transaction" refers to a unique combination of segment number, piece number, readout rev, station, link, and source; see Section III.A for details. Transmission frequency does not include re-runs.

Name	Content	Normal Transmission Frequency
[]	Transmittable pulse and CW signals, plus remarks, for one or more transactions.	No more than once per transaction. (May have more than one transaction per transmission.)
[]	Transmittable pulse and CW signals that pass [] signal-of-interest tests, plus remarks, for one transaction.	One or more per transaction. (Normally, once per signal of interest.)
[]	Transmittable CW signals that pass [] signal-of-interest tests, plus remarks, for one day's (or weekend's) collection of transactions from all 989 missions currently in operation.	One per normal working day (Monday through Friday).

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