

LONG TERM PAVEMENT PERFORMANCE PROGRAM DIRECTIVE



For the Technical Direction of the LTPP Program



Program Area: General Operations

Directive Number: GO-25

Date: May 2, 2000

Supersedes (in part): NA

Subject: Procedures for Adding Computed Parameters to the LTPP IMS

Directive GO-3 established the LTPP policy on incorporating Computed Parameters in the LTPP IMS. This directive provides further definition of the general process by which computed parameters are added to the IMS, once the decision has been made to do so.

For the purpose of this directive, the following roles are defined:

Source: The individual or contractor responsible for initial generation of the computed parameter under consideration. For example, the Source for the data now resident in Table SMP_FREEZE_STATE was ERES Consultants, Inc.

Source Manager: The FHWA staff member responsible for technical direction of the work generating the computed parameter.

TASKS

1. **Identification and definition of proposed IMS table contents.** Information provided shall include or identify:
 - a. The variables to be computed
 - b. Supporting data to be included in the table(s), and sources thereof
 - c. Definitions for all variables
 - d. Expected ranges for all variables
 - e. The computational algorithms to be used in generating the computed parameters.

The information provided must be sufficient to enable others to prepare schema and QC specifications for the data tables.

Responsibility for this task rests with the Source Manager. Typically, this stage of the process will include: preparation of an initial proposal by the individual or contractor generating the computed parameter(s) (referred to hereafter as the "Source"), review of

that proposal by FHWA staff, contractors, and/or an Expert Task Group, and revision of the proposal to address review comments. **Subsequent tasks in the process cannot commence until the Source Manager approves the proposed IMS table contents.**

2. **Definition of Update Frequency and Process.**
Responsibility for this task rests with the FHWA IMS manager. Recommendations may be sought from the Source, and/or TSSC personnel.
3. **Development of Computer Code, and Specification of Output Format**
Responsibility for this activity rests with the Source Manager. In most instances, this task will be assigned to the Source. Where computation within the IMS, or an IMS filter program is deemed appropriate it may be assigned to the TSSC.
4. **Development of IMS Schema and QC Checks**
Responsibility for this activity rests with the FHWA IMS manager. This work will generally be assigned to the TSSC, but may be assigned to the Source in some instances. Applicable guidelines are provided in separate directives.
5. **IMS Coding**
Responsibility for this activity rests with the FHWA IMS manager. This work will be assigned to the TSSC (or future contractors serving in a similar capacity) in all instances.
6. **Generation of Data for Initial Upload**
Responsibility for this activity rests with the Source Manager. In general, the work will be assigned to the Source.
7. **Review of Initial QC Results**
Responsibility for this activity rests with the FHWA IMS manager. The Source may be asked to participate in this work.
8. **Preparation of User Documentation**
Responsibility for this activity rests with the Source Manager. The work may be assigned to the source, the TSSC, or may be completed by FHWA staff based on information provided by the Source in the Task 1 deliverables. Guidelines for this documentation are provided in a separate directive.

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