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Subject: Minutes of STORET Technical Status Meeting

1.0 Purpose

A Meeting was held on January 21, 2004 at the SDC. The purpose of the meeting was to review and address the status of the STORET Project activities and resolve project technical issues.

2.0 Attendees

SDC

Ernestine Bryant
Stephen Smith
Blythe Norris
Ganesh Thadkamalla
Joseph Wilson

EPA

Robert King, Task Order Project Officer (TOPO)
Lee Manning, Alternate TOPO (ATOPO)
Kevin Christian

3.0 Discussion Topics

The following sections detail the discussions of the project tasks and associated Software Incident Reports (SIRs).

3.1 Central Warehouse

The February 2004 release of the STORET Central Warehouse Extract, Transform, and Load (ETL) software will include the following SIRs:

C Add Station Activity Point information to the Result Fact Tables.

- C Add maximum and minimum Activity Start Dates to the ETL software populating the STATION_CHAR table. This will facilitate the addition of the Activity Start Date range to the Station Home Page (SIR 1555).
- C Move Oracle connect statements from the individual ETL scripts to a single script. Modify script calls as appropriate.
- C Make the following columns and associated data available in the Station Fact Table: PRIMARY_TYPE, SECONDARY_TYPE, HORIZONTAL_DATUM, GEOPOSITIONING_METHOD, COUNTRY_CODE, and STATE_POSTAL_CODE.

In addition, the following decisions were made:

- C Indexes and database constraints will be created for the column FK_STN_ACT_PT in all three Result Fact Tables. The constraints will reference the primary key of the Station Fact Table.
- C The column TSMALP_IS_NUMBER will be dropped from the Station and Result Fact Tables as part of the ETL process.
- C The columns used to store the Activity Start Date range in the STATION_CHAR table will be named ACT_MIN_START_DATE and ACT_MAX_START_DATE.

3.2 Unit Conversion

The following decisions were made regarding the establishment of conversion factors for STORET units of measure:

- C The units Molar, Molal, and Moles per Liter will be converted to Moles per Liter.
- C The following units will be unique in that they will not be converted to any other unit:
 - Micro moles per square meter per second.
 - Micro mole.
 - Micro moles per siemen per square meter.
 - Fibers per liter.
 - Platinum Cobalt Units.
 - Pico-Curies per square meter.
 - Pico-Curies per gram.
- C The units Milli-equivalents per Liter, Micro-equivalents per Liter, and Normal will be converted to Milli-equivalents per Liter.

- C The description_text of Nano-moles per Kiligram in the TSRUOM table will be changed to Nano-moles per Kilogram, and incorporated in the next reference table update.
- C The target unit for Pressure will be changed from pounds per square inch to grams per square meter. This will allow the conversion of extremely small pressure units (e.g., picograms per square meter) to fall within the limits of 16 places to the right of the decimal set for conversion factors.
- C Energy conversions (e.g., calorie, British Thermal Unit [BTU]) will be using “IT” (International Table) unit conversions as opposed to “th” (thermocalorie) unit conversions.
- C Megawatt will be used as the target unit for conversions of Power.
- C Unless specified as an imperial gallon in the unit of measure table (TSRUOM), gallons will be interpreted as United States (US) gallons.
- C Radioactivity in terms of the amount present or activity of radionuclide will be measured in pico-Curies per Liter.
- C Radiation dose equivalents will be measured in millirems per day.

3.3 Oracle 9i Installation

The Oracle 9i release 2 Personal Edition is currently supporting Windows NT, 2000, and XP operating systems. Even though Microsoft has dropped support for Windows NT, installation testing will continue on a Windows NT platform.

3.4 STORET Preference and Default Replication

The STORET Preference and Default replication proposed design flow was reviewed. The flow diagrams with changes incorporated are in Attachment A. Other decisions made during the discussion are:

- C This replication utility will only establish new Organizations.
- C Check for database versions on both databases by comparing the contents of the SHORT_NAME column for the national TSMORGAN record. If the check fails to match, all processing should stop.

- C Perform the reference table version check on both databases by comparing the contents of the Table_Version column for each applicable reference table record (e.g., TSRCHAR) in the TSMEISN table. If the check fails to match, all processing should stop.
- C Source and target temporary schemas will be created on the target machine.
- C Stop processing whenever there is Procedural Language/Structured Query Language (PL/SQL) exception error.
- C Processing on Flow 1 will require some user intervention. On-screen instruction will be provided to the user.
- C When creating a backup of the target database (part of Flow 10), only include STORET1 tables. Use the same directory structure (i.e., STORET\ORASTO2\EXPORT) to store the dump file as is done for STORET v2.0 exports.
- C Attempts to rerun the process after it has completed successfully will not be allowed due to the presence of duplicate records.
- C Readme text and installation instructions should include the list of installation actions being automatically performed by the software.
- C Use WISE installation scripts if time permits.
- C Test platforms must include Windows 2000 and XP. Include Windows 98 if time permits.

3.5 STORET Station Web Service

A beta version of the STORET Station Web Service application will be delivered by January 28, 2004.

L. Manning took action to check with Dick Blake at Research Triangle Park (RTP) as to the status of the WSSERVER.JAR file fix received from Oracle Technical Support. The 9.0.4 version of the file must be applied to the Oracle 9iAS Rel 2 (9.0.3) in order for the web service to function properly. Erik Cohen had previously sent this file to representatives at RTP (i.e., Regina Grimes, Phil Rosel, Gray Fernandez) via email.

4.0 Action Item Summary

Number	Description	Date Issued	Status	Assignment	Date Completed
04-0001	Establish proposed schedule of deliverables not to exceed November 28, 2003.	10/09/2003	Closed	E. Bryant	10/29/2003
04-0002	Provide Unit of Measure count Structured Query Language to L.Manning	01/08/2004	Closed	S. Smith	01/12/2004
04-0003	Provide TSRUOM description_text corrections to L. Manning	01/08/2004	Closed	S. Smith	01/12/2004
04-0004	Determine supported Windows operating systems for Oracle 9i Release 2 Personal Edition.	01/08/2004	Closed	G. Thadkamalla	01/23/2004
04-0005	Provide TSRUOM description_text corrections to L. Manning	01/21/2004	Open	S. Smith	
04-0006	Inquire as to status of WSSERVER.JAR fix at RTP	01/21/2004	Open	L. Manning	

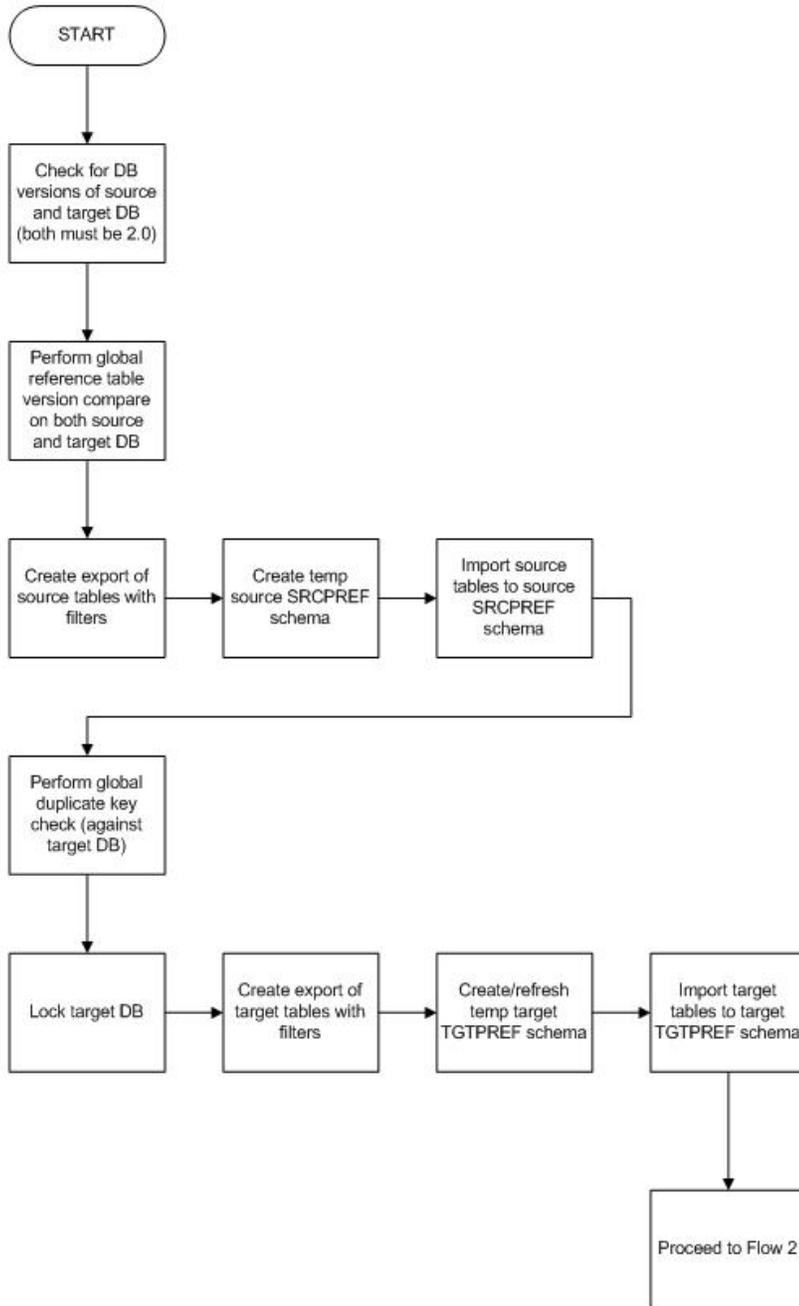
5.0 Next Meeting

The next meeting was not scheduled.

ATTACHMENT A

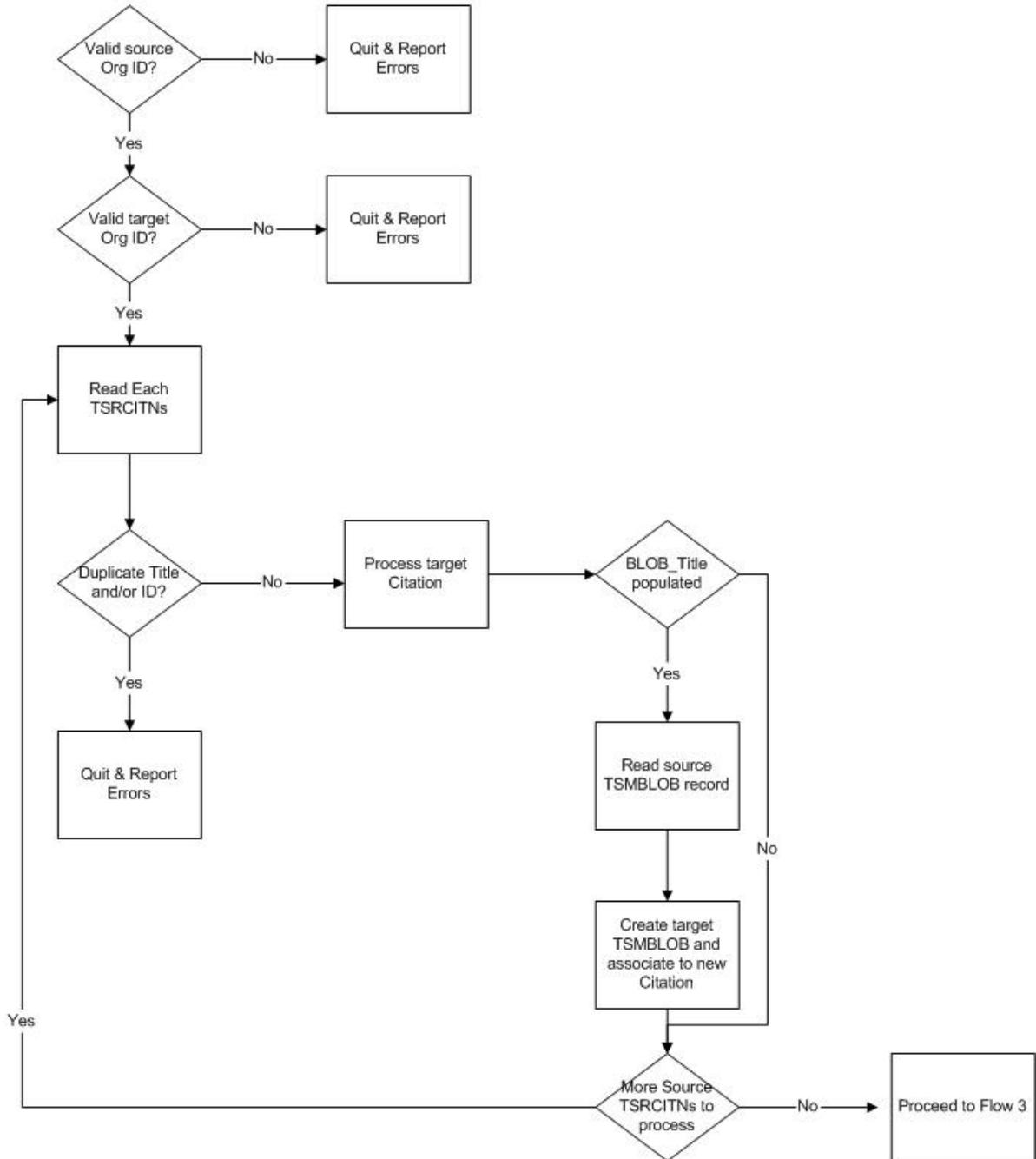
Flow Diagrams

Flow 1

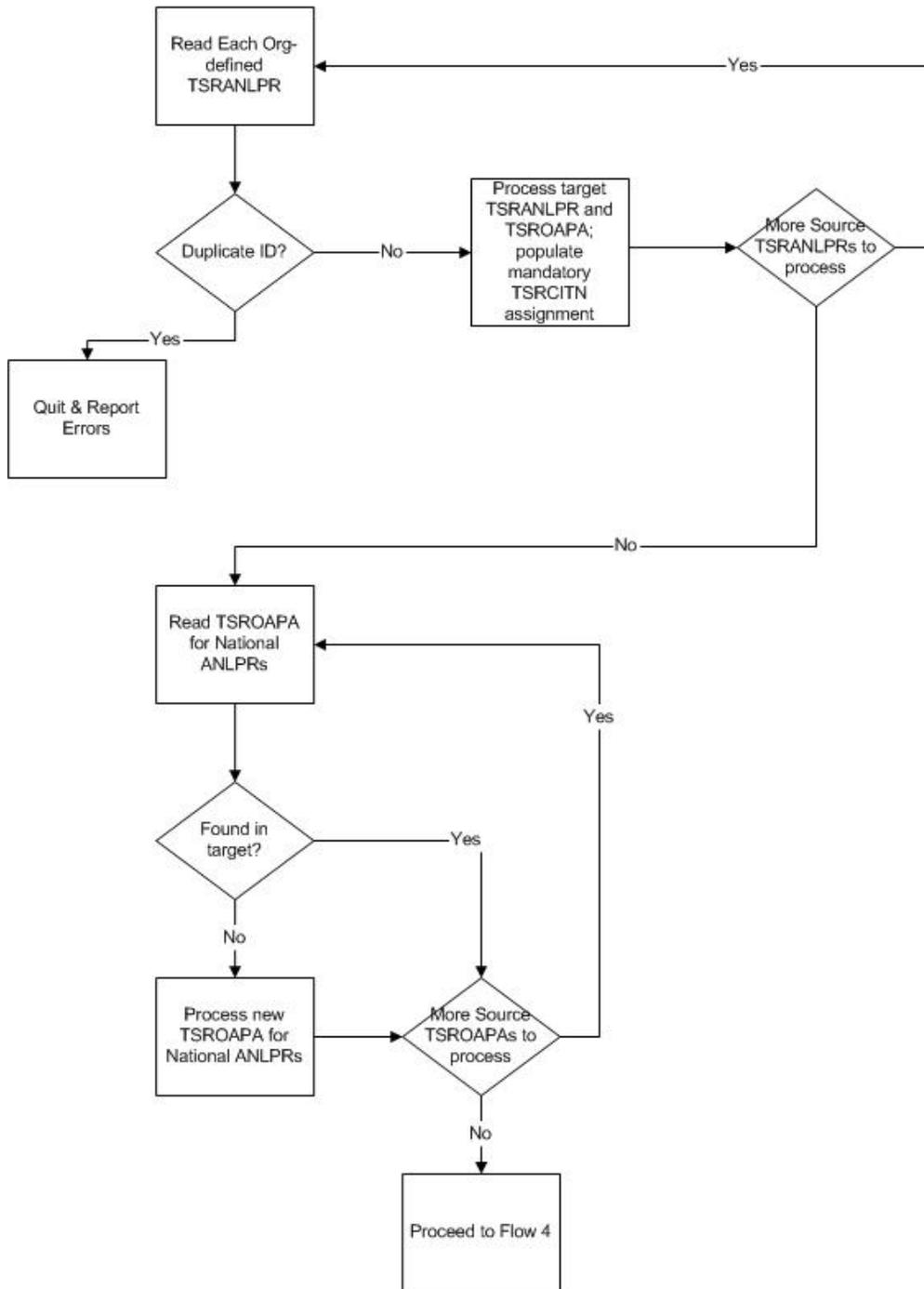


Last Updated: 02/03/2004

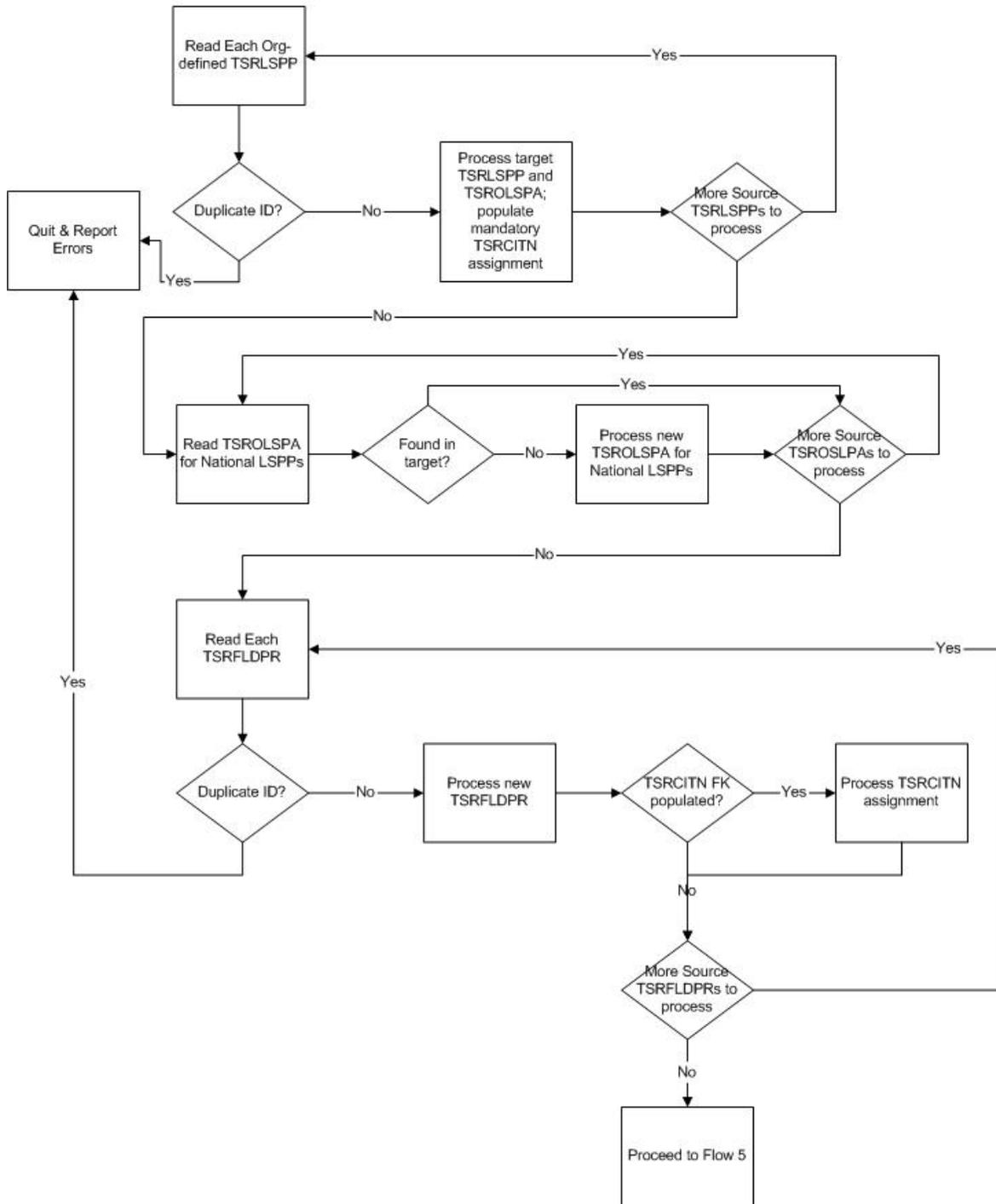
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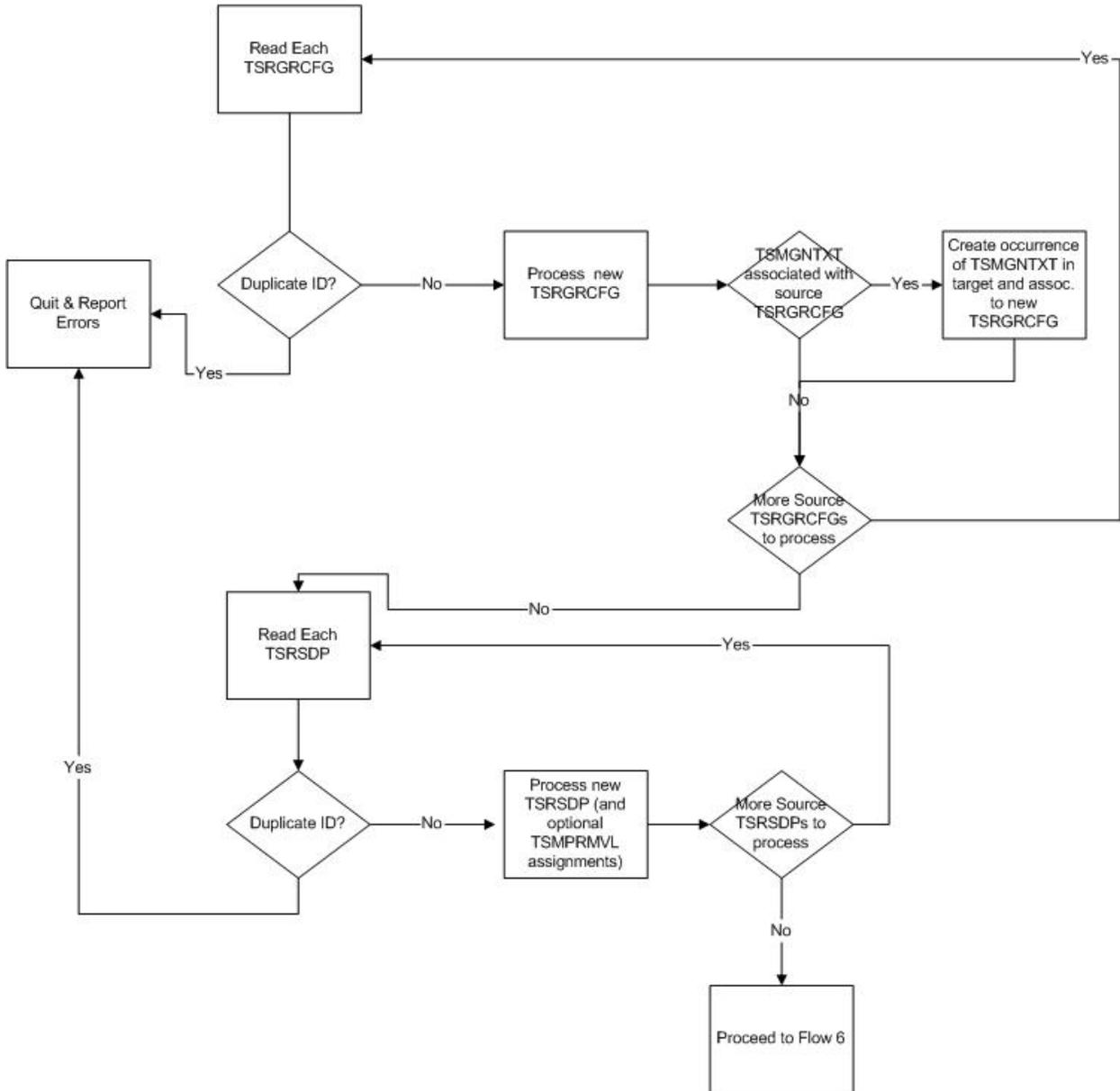
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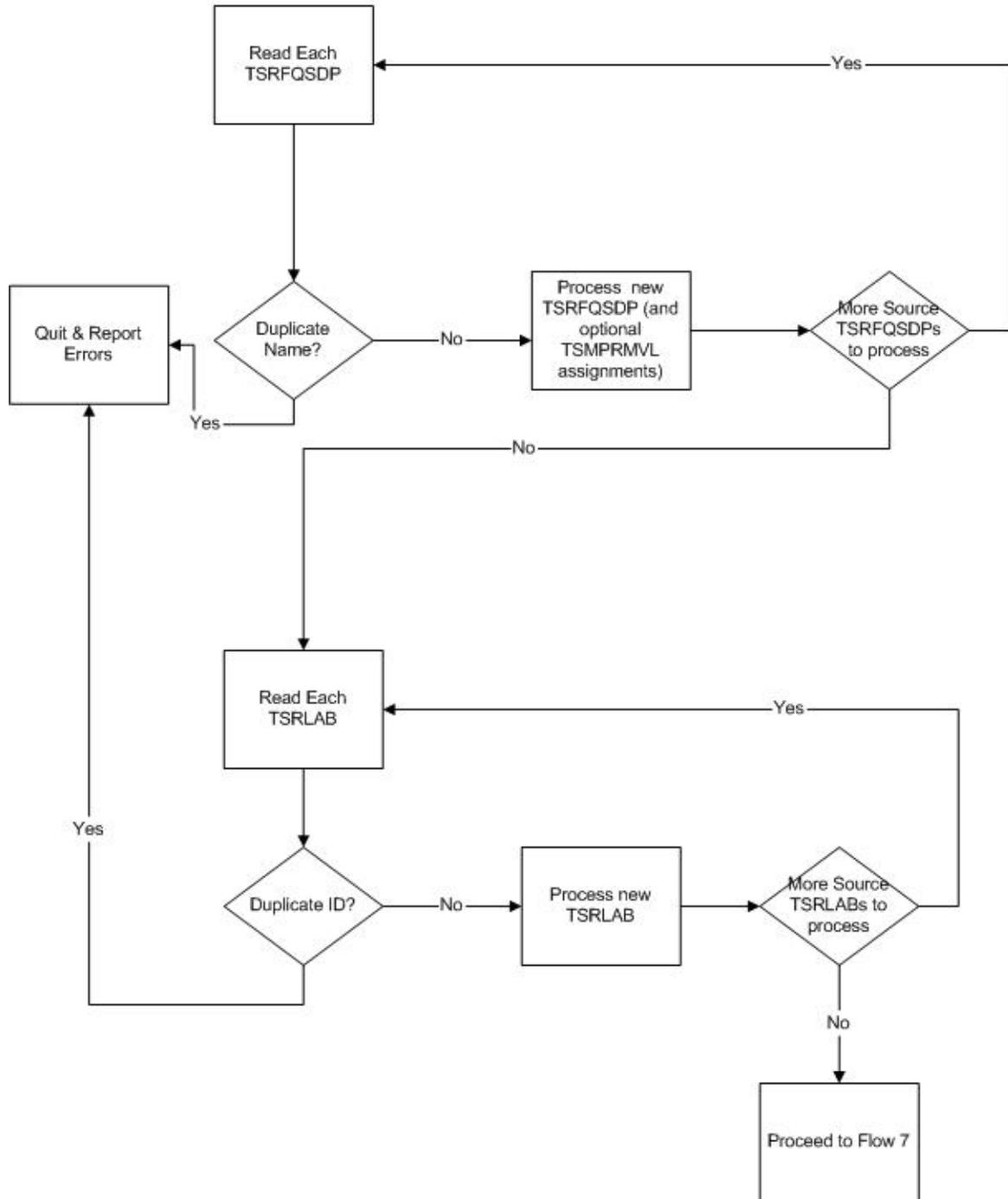
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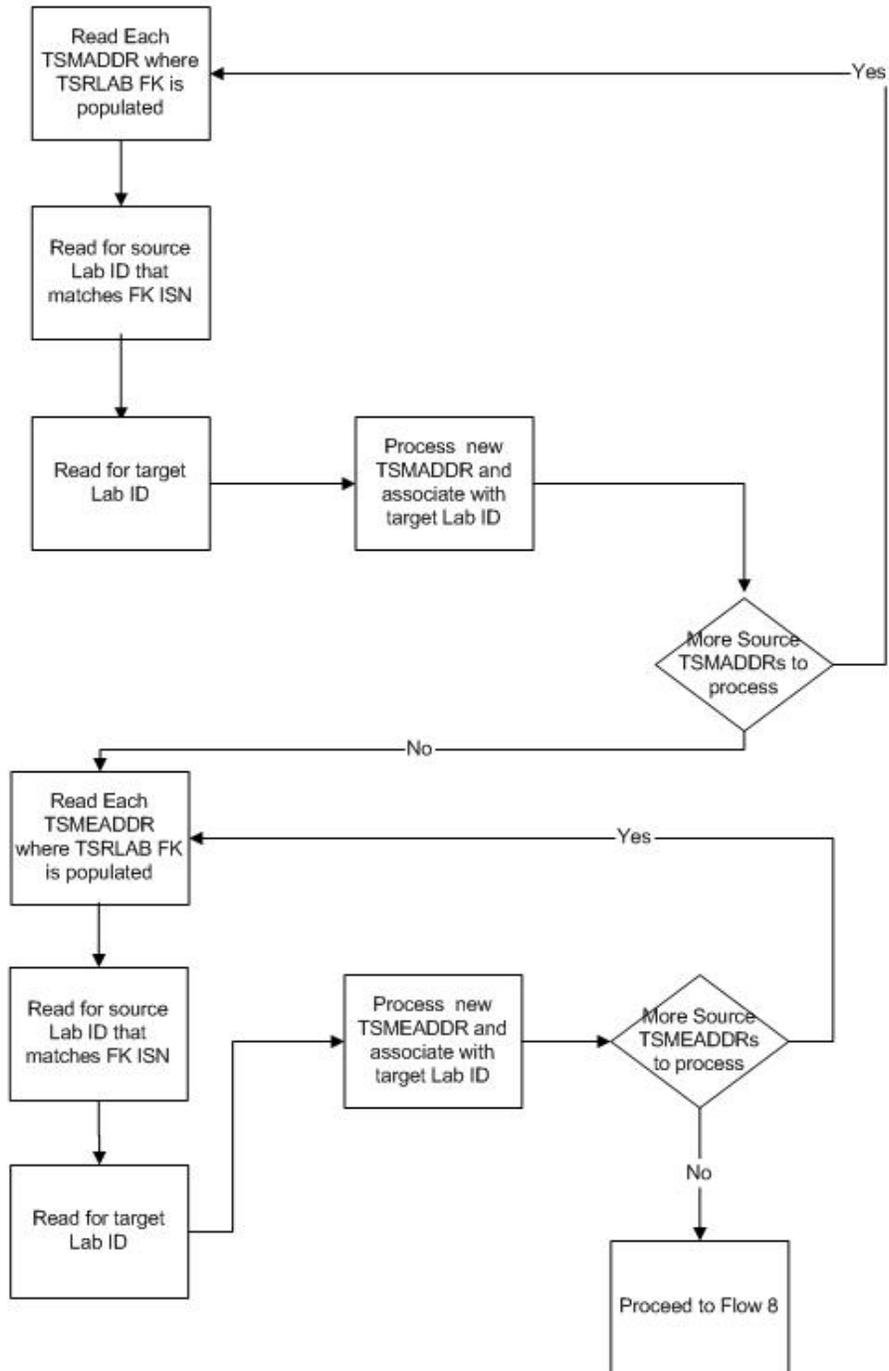
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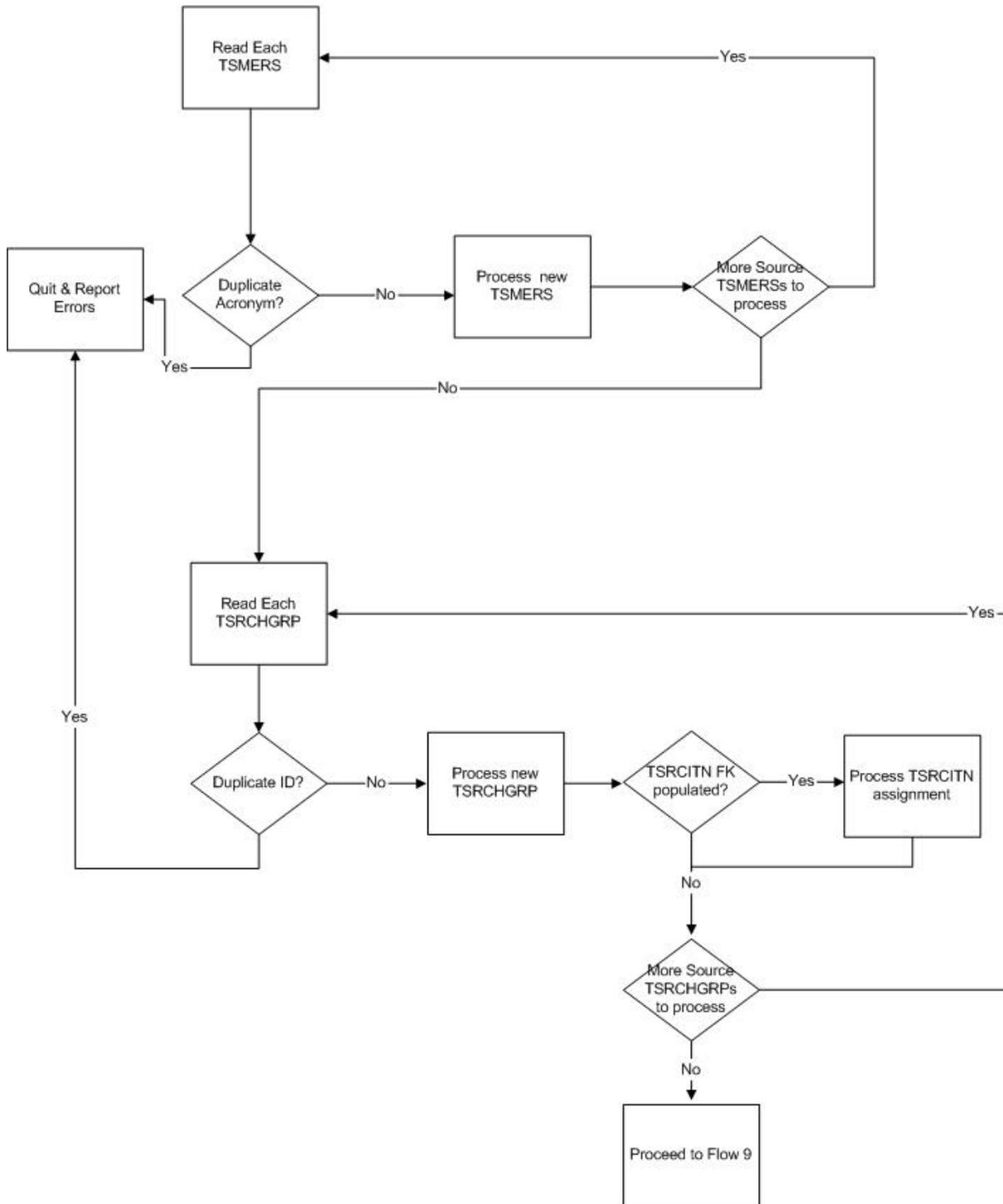
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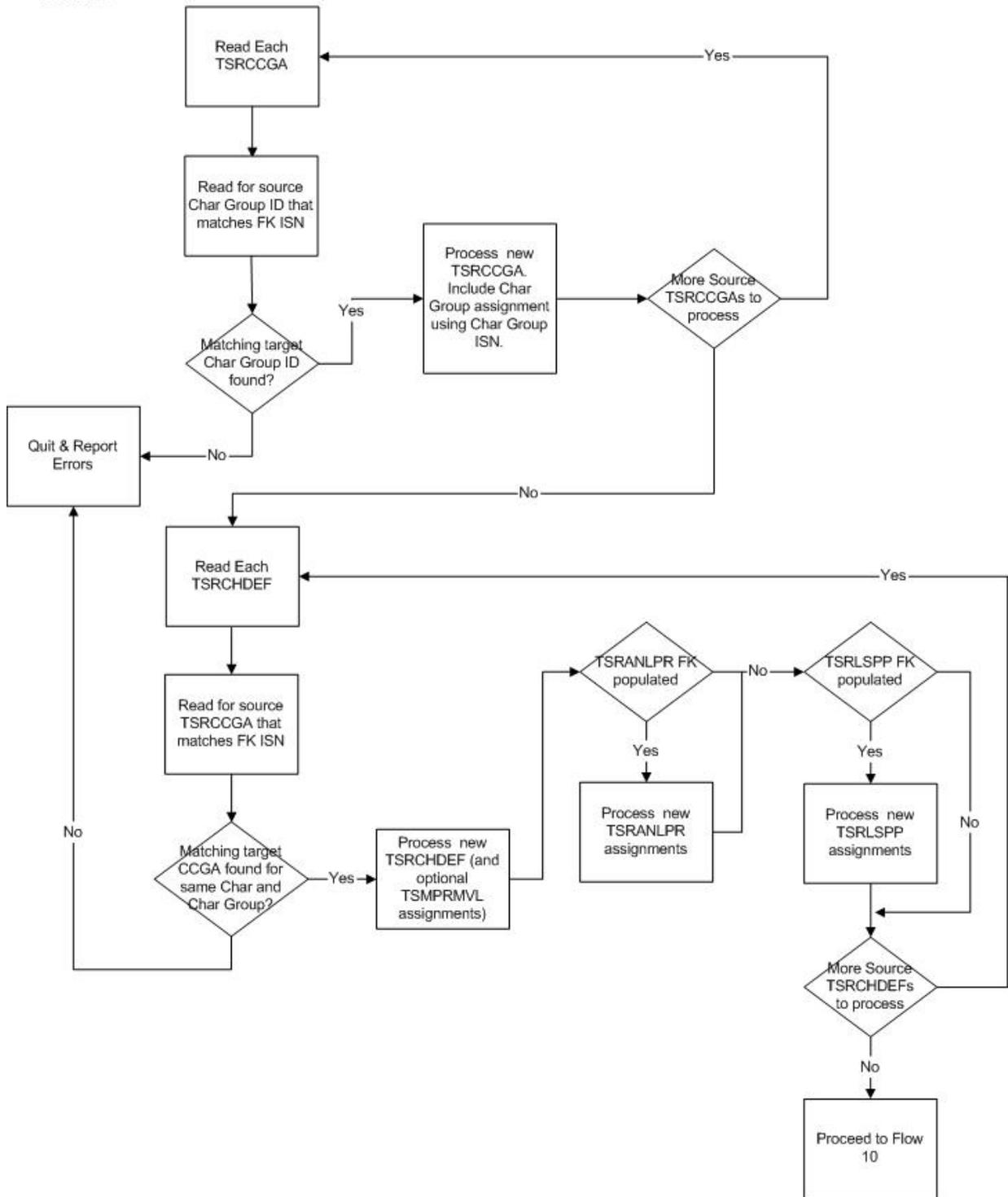
Flow 7



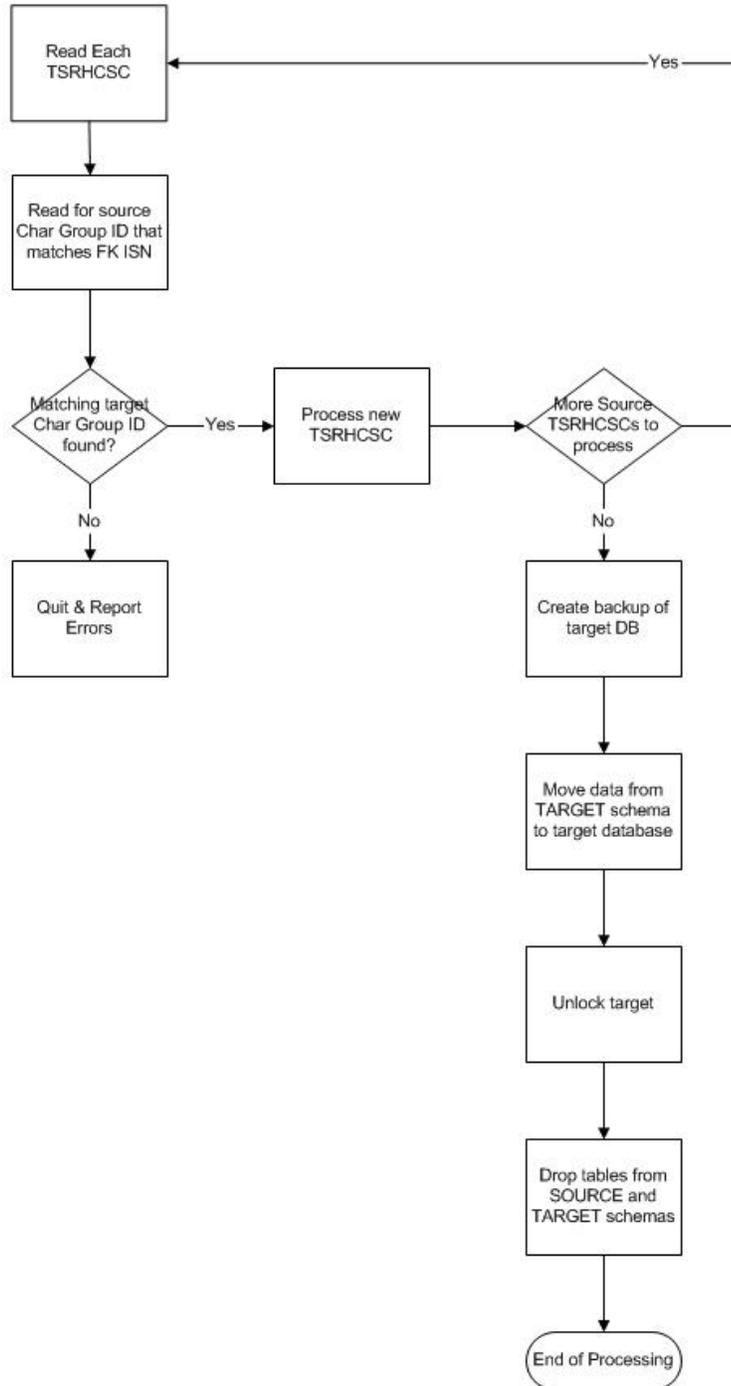
Flow 8



Flow 9



Flow 10



Global Error Handling

