**SPTT Data Validation Module Upgrade Notes**

* Background:
  + a copy of PIC.SPTT was created on PICD for development/testing purposes to make sure that the DVM installation/configuration process would be successful on the production database
  + table/sequence/trigger/index/constraint DDL was exported to PIC\_SPTT\_DDL\_only20170306.sql
  + View DDL was exported to PIC\_SPTT\_View\_DDL\_only20170306.sql
  + Data was exported to PIC\_SPTT\_data\_only20170306.sql
* All export files were executed on the PICD instance to re-create objects and populate data
  + Run DDL files:
    - PIC\_SPTT\_DDL\_only20170306.sql
    - PIC\_SPTT\_View\_DDL\_only20170306.sql
  + All packages, procedures, views, and functions were re-compiled
  + The SQL Developer DIFF tool was used to compare the objects in the two schemas to ensure they were equivalent
  + Load Data
    - Execute code in [\_Disable\_All\_FKConstraints\_Trigers.sql](http://pichub.pifsc.gov/application-development/centralized-tools/blob/master/SQL%20scripts/_Disable_All_FKConstraints_Trigers.sql)
    - Load data over DB link:
      * SELECT 'INSERT INTO ' || OBJECT\_NAME || ' SELECT \* FROM ' || OBJECT\_NAME || '@PIC\_SPTT;' FROM user\_OBJECTS where OBJECT\_TYPE in ('TABLE') ORDER BY OBJECT\_NAME;
    - Execute code in [\_Enable\_All\_FKConsts\_Triggers.sql](http://pichub.pifsc.gov/application-development/centralized-tools/blob/master/SQL%20scripts/_Enable_All_FKConsts_Triggers.sql)
* Target schema was upgraded
  + Ran code\generalized\_validation\_module.sql
  + Ran code\DVM\_PKG.sql
  + Ran code\data\_validation\_module\_view\_DDL.sql
  + Install/Configure history package on select DVM tables: code\history\_pkg\_objects.sql
  + All packages, procedures, views, and functions were re-compiled
* Test that the module is running correctly