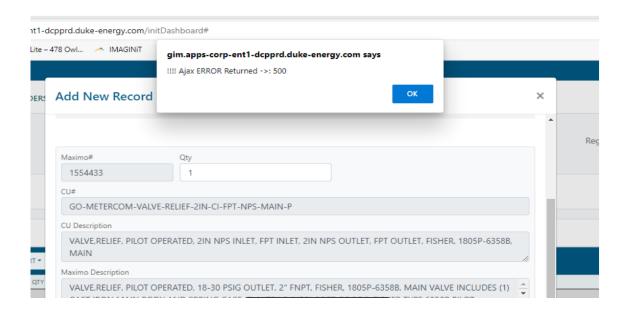
## CADT - 1600

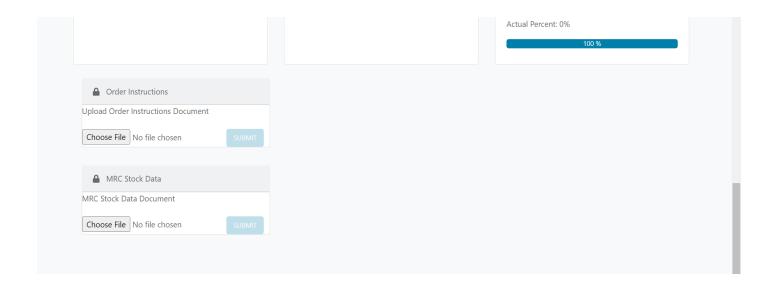
Miscellaneous : Uploaders Should Replace Data Description:

When an admin user uploads data using the "Ordering Instructions Uploader" or the "MRC Stock Data" uploader, it should replace the data contained in the list previously. This will prevent duplicate entries being made. See email attached for issue encountered due to this.

Analysis: While uploading ItemOrderInstruction data contained file & MRC Stock Data file then the data contained some duplicate entries so that is it is giving an AJAX Error while Adding the record as shown below:



**Conclusion:** As suggested like Brittany on every 6 months she has to upload the data using UI as shown below:

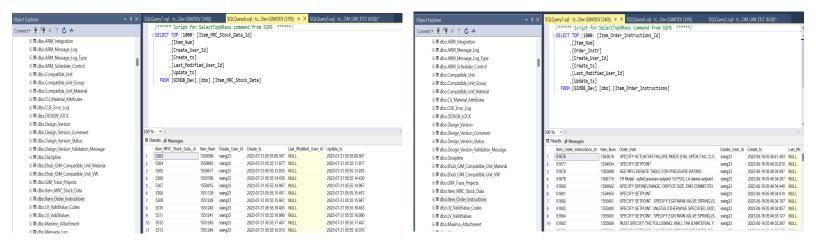


• Brittany uses this sample data for Item\_Order\_Instruction to upload using UI as shown below:

Legacy Item Number	Maximo Cat ID	Replacem Reason M Modified	Comple Ordering Instructions
12075	1553987		SPECIFY SETPOINT. THE OLDER ANDERSON GREENWOOD MODEL 33310K3
1589862	1589862		?MUST INDICATE SET PRESSURE @ TIME OF ORDER
1590386	1590386		?MUST SPECIFY SETPOINTS (INCLUDING WORKER PILOT)
1590292	1590292		?SPECIFY SETPOINT. UNLESS OTHERWISE SPECIFIED, NO PILOT BLOWDOWN
17111	1552644		****ONLY USE WHEN LSAW METHOD IS REQUIRED**** ERW IS MORE COM
17110	1551329		****ONLY USE WHEN LSAW METHOD IS REQUIRED****
1595860	1595860		***MUST ORDER O-RING SEPERATELY*** NOT INCLUDED
1593569	1593569		@ TIME OF ORDER, SPECIFY "NATURAL GAS USE", THE DESIGN FACTOR, & T
17552	1575129		1) SPECIFY SETPOINT. 2) SPECIFY INTERNAL RELIEF SETPOINT. 3) SPECIFY OF
13374	1556404		
12145	1555035		ALSO ORDER CAP - CATALOG #10831.
12150	1555036		ALSO ORDER CAP - CATALOG #10831.
12165	1555040		ALSO ORDER CAP - CATALOG #10831.
1608327	1608327		
16367	1556271		APOLLO REDUCED PORT IS AVAILABLE SEE PNG 14241
17438	1556276		APOLLO REDUCED PORT IS AVAILABLE. SEE PNG 1570839
15132	1555076		AT TIME OF ORDER, SPECIFY NATURAL GAS USE, THE DESIGN FACTOR, AND
15163	1555067		AT TIME OF ORDER, SPECIFY NATURAL GAS USE, THE DESIGN FACTOR, AND
16497	4205492		Be sure to order w/ pressure transmitter 16507 (1558508)

• Now this is the second file which Brittany uses that is MRC\_Stock Data so this is an sample record which Brittany uses to upload as shown below:

<b>⊿</b> A	В	С	D	Е	F	G	Н	1	J
1 Maximo #									
1550590									
1550645									
1550677									
1550790									
1550815									
7 1551139									
8 1551229									
9 1551240									
1551241									
1 1551245									
1551246									
1551289									
1551335									
5 1551340									
1551399									
7 1551402									
1551404									
9 1551430									
1551431									
1551101	1								



**Solution:** Now the solution is we have to prevent the duplicate data to be inserted inside the database while uploading the data using UI meaning that these Excel file containing an duplicate entries inside it so we have remove those duplicates data before inserting into DB so we have to analyze the code and did the fix for this.

Here are the two table in DB where the data got stored for Item\_Order\_Instruction & Item\_MRC\_Stockdata as shown below:

• When file get upload it will trigger the backend controller as shown below for the MRC Stock data upload :

• So what change I have did here in this controller class for this potsmapping (/mrcstockdata) it is reading the data one by one from file and adding that data into an ArrayList then after deleting all the record from DB then it is saving an fresh record every time so what I have did like using stream() API call happens while saving the data I called an method distinct() on stream API so that it will prevent an duplicate record to be inserted inside the DB as shown below:

```
itemMRFCLoaderService.deleteAllMRCStockData();
/*List<String> uniqeList=data.stream()..collect(Collectors.toList());
forEach( uniqeList ->{
    ItemMRCStockData itemStockData = new ItemMRCStockData();
    itemStockData.setItemNum(dataList);
    itemStockData.setCreateUserId(userTim.getLoginId());
    itemMRFCLoaderService.save(itemStockData);
});*/
data.stream().distinct().forEach(entry -> {
    Logger.debug("Data -->: "+entry);
        ItemMRCStockData itemStockData = new ItemMRCStockData();
        itemStockData.setItemNum(entry);
        itemStockData.setCreateUserId(userTim.getLoginId());
        itemMRFCLoaderService.save(itemStockData);
```

 Now for Item\_Order\_Instruction while uploading the data it will trigger an backend controller i.e postmapping (/loadOrderInstr) as shown below:

• SO here we are using HashMap<> in order to read the data based on the column and stored inside the hashMap object so here we are trying to use like if ItemNumber is already exist inside the Map then we have to remove the object to the list of that ItemNumber and then add new ItenNumber and if it doesn't exist then create a new list and the object to it. As shown below:

**Result:** As at last if we want to cross verify that there are no duplicate record being getting inserted inside the DB so we have to run the query in order to check the result in DB as shown below:

```
SELECT

item_Num,

COUNT(*) occurrences

FROM Item_Order_Instructions

GROUP BY

item_Num

HAVING

COUNT(*) > 1;

100 % 

■ Results    Messages

item_Num occurrences
```