

Automated Email CSL1 Inpection Report Sytem – APU4 CSL1

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Problem Background

- Daily QC reporting was fully manual
- Data copying and email sending were done one by one
- High risk of errors and delays

Proposal:
Using google sheet App script
programming,write program to
automated report by pressing 1 button

- Speed up reporting of QC issues to responsible parties
- Reduce human error
- Standardize the report format
- Enable anyone to generate reports easily

Process Flow (Before)

- QC inputs data into Google Sheet
- Supervisor filters data by date
- Copy defect information
- Manually type and send email

Process Flow (After)

- QC still inputs data using data entry display
- Supervisor selects the date
- Click the “Send Report” button
- System filters reject > 0 and auto-sends email to PICs

System Functions

- Select date in Google Sheet cell
- Script will reads log data to block send date report twice
- Script reads and filters data by date
- Only reject > 0 will be included
- Email is sent automatically with HTML content

Apps Script : Java script

script.google.com/u/0/home/projects/15mU6BVuogLsDHCAOxspH1Qbh3HjtslegOjwL0hf_-YcVMPfNMexxQbD4/edit



Apps Script

Auto send reject report

Deploy



Files



Code.gs



Libraries



Services



Run



Debug

sendInspectionSummary

Execution log

```
1 function sendInspectionSummary() {
2   const ss = SpreadsheetApp.getActiveSpreadsheet();
3   const mainSheet = ss.getSheetByName("APU4 CSL1 Daily Tracking List");
4   const emailSheet = ss.getSheetByName("email");
5   const timezone = Session.getScriptTimeZone();
6
7   const rawDate = mainSheet.getRange("Y2").getValue();
8   if (!(rawDate instanceof Date)) {
9     SpreadsheetApp.getUi().alert("❌ Invalid date in Y2.");
10    return;
11  }
12
13  // ✅ Step 1: Standard date format for comparison
14  const formattedDate = Utilities.formatDate(rawDate, timezone, "yyyy-MM-dd");
15
16  // ✅ Step 2: Get all values from column F (as string)
17  const rawLogged = emailSheet.getRange("F2:F1000").getValues().flat();
18  const loggedDates = rawLogged.map(val => {
19    if (val instanceof Date) {
20      return Utilities.formatDate(val, timezone, "yyyy-MM-dd");
21    } else if (typeof val === "string" && val.trim() !== "") {
22      // try parse if text
23      const parsed = new Date(val);
24      if (!isNaN(parsed)) {
25        return Utilities.formatDate(parsed, timezone, "yyyy-MM-dd");
26      }
27    }
28    return null;
29  }).filter(Boolean);
30}
```

The project was renamed.

Project Benefits

- Time-saving (< 1 minute)
- Consistent report format
- No missed data
- Easy audit tracking

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f_x Reject

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
1	Inspection Date	Week	Part Number	Part Name	Total Checked	Total OK	Total NOK	Reject											
2								Broken	Flashing/Burn	Oily	Burn mark	Shining	Mix Cav	Mix part	White dot	Gas Mark	Dented	Bubble	Short Mol
3	17 Mar 25	12	E400015-00-00-WIP ▾	BS Bracket Ind	750	748	2	2											
4	17 Mar 25	12	E801314-00-00-WIP ▾	IND Rotary	288	254	34		30		2						1	1	
5	17 Mar 25	12	E801178-00-00-WIP ▾	RET Rotary	144	74	70			68							1		1
6	18 Mar 25	12	E801318-00-00-WIP ▾	IND CAP With Button	1680	1680	-												
7	18 Mar 25	12	E403261-00-00-WIP ▾	Cam	1000	1000	-												
8	19 Mar 25	12	E400062-00-00-WIP ▾	Driver Ind	600	600	-												
9	19 Mar 25	12	E405574-00-00-WIP ▾	Driver Ret	600	600	-												
10	21 Mar 25	12	E801311-00-00-WIP ▾	IND Lever W Button	704	528	177		176						1				
11	21 Mar 25	12	E801310-00-00-WIP ▾	IND RS Button	700	700	-												
12	22 Mar 25	12	E801311-00-00-WIP ▾	IND Lever W Button	1332	1320	12								10	2			
13	22 Mar 25	12	E801310-00-00-WIP ▾	IND RS Button	1806	1767	39						15	1	23				
14	WW13																		
15	23 Mar 25	13	E801311-00-00-WIP ▾	IND Lever W Button	1688	1584	102		57						36				
16	24 Mar 25	13	E801311-00-00-WIP ▾	IND Lever W Button	1071	1056	15								15				
17	24 Mar 25	13	E801310-00-00-WIP ▾	IND RS Button	700	700	-												
18	24 Mar 25	13	E400015-00-00-WIP ▾	BS Bracket Ind	2250	2250	-												
19	24 Mar 25	13	E400062-00-00-WIP ▾	Driver Ind	1201	1200	1	1											
20	24 Mar 25	13	E801318-00-00-WIP ▾	IND Bracket	1203	1200	3	3											
21	24 Mar 25	13	E405574-00-00-WIP ▾	Driver Ret	1800	1800	-												
22	24 Mar 25	13	EB18335-00-00-WIP ▾	RET Dummy lever	400	400	-			11									
23	25 Mar 25	13	EB18335-00-00-WIP ▾	RET Dummy lever	1123	1120	3												
24	25 Mar 25	13	E400062-00-00-WIP ▾	Driver Ind	1200	1200	-												
25	25 Mar 25	13	E801311-00-00-WIP ▾	IND Lever W Button	1223	1193	30								29	1			
26	25 Mar 25	13	E403261-00-00-WIP ▾	Cam	6000	6000	-												
27	25 Mar 25	13	E801312-00-00-WIP ▾	IND Cover	120	120	-												
28	25 Mar 25	13	E801318-00-00-WIP ▾	IND Bracket	2800	2800	-												
29	25 Mar 25	13	E400015-00-00-WIP ▾	BS Bracket Ind	750	750	-												
30	26 Mar 25	13	E801311-00-00-WIP ▾	IND Lever W Button	1078	1050	28								21	1	4		
31	26 Mar 25	13	EB18335-00-00-WIP ▾	RET Dummy lever	1748	1743	5								5				
32	26 Mar 25	13	E801316-00-00-WIP ▾	IND CAP With Button	960	960	-												
33	26 Mar 25	13	E801318-00-00-WIP ▾	IND Bracket	400	400	-												
34	26 Mar 25	13	E400015-00-00-WIP ▾	BS Bracket Ind	3000	-	3000	3000											
35	26 Mar 25	13	E801314-00-00-WIP ▾	IND Rotary	555	542	13												
36	27 Mar 25	13	E801314-00-00-WIP ▾	IND Rotary	373	360	13												
37	27 Mar 25	13	E404434-00-00-WIP ▾	Ret Bas Bracket	3204	3200	4	4								13			
38	27 Mar 25	13	E801311-00-00-WIP ▾	IND Lever W Button	1442	1408	34								32		2		
39	27 Mar 25	13	E801316-00-00-WIP ▾	IND CAP With Button	1320	1320	-												

Reject Data filled by CSL1 operator-After

docs.google.com/spreadsheets/d/1yS6rJeGXSrJleuzr2OYMxu_p-r2QaadVMnKTIWPNg_/edit?gid=681619990#gid=681619990

CSL1 APU4 Daily Tracking

File Edit View Insert Format Data Tools Extensions Help

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1			Show Form					Reject						
2	Inspection Date	Week	Part Number	Part Name	Total Checked	Total OK	Total NOK	Broken	Flashing/Bur	Oily	Burn mark	Shining	Mix Cav	Mix part
82	11 Apr 25	15	E40001000-00-WIP	BS Bracket Ret	1200	1200	-							
83	11 Apr 25	15	E404434-00-00-WIP	BS Bracket Ret	1200	1200	-							
84	11 Apr 25	15	E405662-00-00-WIP	Cap W/O Button Ret.	1022	-	1022							
85				#N/A										
86				#N/A										
87				#N/A										
88				#N/A										
89				#N/A										
90				#N/A										
91				#N/A										
92				#N/A										
93				#N/A										
94				#N/A										
95				#N/A										
96				#N/A										
97				#N/A										
98				#N/A										

3 APU4 CSL1 Daily Tracking List Inspection Data 3 Part Listing 4 WK12 Sheet4 Delivery plan

Search

ENG US 3:57 PM 11/4/2025

Send email

Sample Emel Auto-Generated

- Subject: CSL1 Daily Reject Report (07/04/2025)
- Content:
 - - Date of Reject
 - - Part Number / Name
 - - Quantity Reject
 - - Reject Type
 - - Remark



Example of Auto-Generated Email

- Subject: CSL1 Daily Reject Report
(07/04/2025)
- Content:
 - - Reject Date
 - - Part Number / Name
 - - Quantity Rejected
 - - Reject Type
 - - Remark

Conclusion

- System successfully implemented at APU4 CSL1
- Solves delay and inaccuracy issues
- Supports efficiency and transparency in daily QC process