

User Manual for "Data-View"

For

SPF-56

Automatic Power Factor Controller (APFC) Units.

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By



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Nov 27, **2016**

Page **2** of **33**



INDEX

Contents	Page No.
1) Introduction	4
2) Login Details	5
3) Data Downloading	6
a. Save Zone Details	9
4) Instantaneous Data	10
5) Records	11
a. Interval Log records	11
b. View Fault Records	14
6) Search	16
7) Edit Parameter	17
8) Setting	18
a. Modify Login Password	18
b. Modify Step KVAR Password	19
c. Edit Zone Details	20
9) Sample Data Report	21
10) Sample Excel Report	28



1. Introduction

The "Data-View" Application Software is a Human-Machine Interface (HMI) for Automatic Power Factor Controller.

It is for not only data downloading from the SPF-56, but also for presenting the captured information in a User-Friendly manner.

Thus, the logged records in the APFC Unit are first downloaded by "Data-View" into PC memory, and then analyzed and presented to the User in various ways.

"Data-View" is capable of generating the reports in visual forms as well as in print form for hard-copy storage.

The Non-Volatile Memory of the SPF-56 Unit is capable of logging the Data for a maximum duration of 20 days for 10 Min, 31 days for 15 Min, 62 days for 30 Min, 124 days for 60 Min log time.

Further facilities provided by the "Data-View" to create Excel file of Interval Records, Event Records, Bank Status and Parameter Settings.

"Data-View" also generates Data Report of Interval Records, Event Records, Maintenance Reports, Performance Report and Abbreviations used for faults.



2.Login Details

- 1) This screen appears after splash screen.
- 2) Enter provided user name and password and click on "Login" button.
- 3) If entered username and password is correct, it will show new screen for next operation.
- 4) One can change Login details from setting option.

िल्ले Login			×
	User Name: Password:	Tas ×××	
		Login	Cancel

Picture: Login form

Nov 27, **2016**

Page **5** of **33**



3.Data Downloading

- 1) Set your computer's "date format" to "dd-mm-yy", as explained before.
- 2) Com-Port and Baud rate are default set in the Comport Setting Menu.
- 3) Click on "Modify" button to modify comport and baud rate setting if default setting of baud rate and comport is wrong.
- 4) Check supporting com-port of the PC and select same com-port from options, as explained before.
- 5) Select baud rate matching with the APFC Controller's baud rate.
- 6) Click on "Save" button to save com-port and baud rate settings.
- 7) Once saves this setting, need not to do it again. One needs to changes setting only when computer system is changed.

M TAS POWERTEK	
Communication Records Search Parameter Setting About Us Exit	
	1
	1
B - Commport Settings	1
Communication Port: 3	
Baud Rate: 57600	
Modify Save	
Success	
Setting saved successfully	
	1
ОК	
	1
	1

Picture: Save Setting of Com Port and Baud Rate



- 8) If APFC's baud rate and PC's baud rate does not match it shows communication failure error.
- 9) If user selects wrong com port then software shows you communication failure error.
- 10) After save Settings, Progress bar shows the downloading status.
- 11) Panel ID and APFC Unit Serial Number fields on the "Downloading form" denote the Panel ID and Serial Number of APFC Unit, whose data is currently being downloaded.
- 12) During data-downloading process, we cannot change com-port and baud rate setting.
- 13) Do not disconnect the RS-232 Data Communication Cable during downloading process.
- 14) After data-download from APFC Unit, "Data-View" will take some time to create database.

M TAS POWERTEK			
Communication Records Search Parameter Setting About Us Exit			
		_	
湖 Data Downloading	×		
Panel ID :- 00000001 Seri	al Number :- FFFFFFFFFFFFFF		
	8%		
Data Downloading			
DOWNLOAD	CLOSE		

Picture: Data Downloading



15) If you want to download data again from same controller (Same Panel Id) having different Log Time, it will ask to Clear Previous Records. Because one database cannot save the data with different Log Time. If you want to continue with new LOG Time, clear the previous database first.

TAS POWERTEK		
Communication Records Search Parameter Setting About Us Exit		
a Data Downloading		
Panel ID :- 00000001	Serial Number :- FFFFFFFFFFFFF	
Downwork D		
DOWNLOAD	CLOSE	
	Data View	1
	Your Time Interval Is change. You Have To Clear Previos Records	
	ОК	

Picture: Clear Records For Same Panel Id For Different Log Time



a. Save Zone Detail After Downloading

- If you are fetching data for first time, software will show Zone Detail form.
- SPF–56/16 Unit Serial Number and Panel ID are fetched by software. User need to fill panel details.
- It is necessary for user to fill all the fields and save that record. It helps to create database for that panel. Click on "SAVE" button to save record.
- Here, user can only save record for new panel. Remaining buttons are disabled during this operation.

[逾] Zone Details			_					
			Zone De	tails				
Technica	al Details		Bank Detai	<u>ls</u>	G	eneral Details		
PF Panel ID: 100	000001		Bank KVAR		Feeder Name:			
		Bank1	12 Bank9	0	Location :			
PF Controller Sr. No.: FF	FFFFFFFFFFF	Bank2	12 Bank10	0	Area :			
PF Panel KVAR:		Bank3	12 Bank11	0	Circle Name:			
Dist. Transformer KVA:		Bank4	18 Bank12	0	So Engineer		-	
		Bank5	18 Bank13	0	op. Engineer.			
Load CT : 10	00 5	Bank6	20 Bank14	0	Engineer:			
	п. Атр 5ес. Атр	Bank7	40 Bank15	0	Linesman:			
Date Of Installation: 2 of PF Panel	7-11-2016 🔹	Bank8	50 Bank16	0	Maintenance: Operator			
SAVE	MODIFY	ELETE	CLEAR		EXIT			
Serial Number Panel ID	Traffo KVA Feeder	Name	Panel KVAR Ban	k1 B.	ank2 Bank3 Ba	nk4 Bank5	Bank6	

Picture: Save Zone Detail after Downloading



4. Instantaneous Data

- 1) Click on "Instantaneous Data" sub-menu in communication menu to get "Instantaneous Data"
- 2) Click on "INSTANTANEOUS DATA" button to get instant record.
- 3) Once user click on this button, the form will show the current reading of all the parameter is also shows you Panel Id and Serial Number of that Panel.
- 4) If "Zone Detail" of panel is not present it will ask user to enter after showing you instant data.
- 5) One can get report of Instant data from the same form. User need to select Panel Id and its related Date, Time.
- 6) There are two options are present for report
 - a. Data Report
 - b. Excel report

User can choose any option as per their need.

	1000					-				-
Panel ID :-	600	accest.				S	orial Numbe	460	0061480004	
INSTANTA	NEOUS	DATA							CLOSE	
	Before	Compen	sation	After (Compen	sation	11	BANK	STATUS	
1	R	Y	B	R	Y	n	BANK 1	OFF	BANK 9	OFT
VOLTAGE)	0	0	0	1	0	BANK 2	OFF	BANK10	OFF
CURRENT	3	3	0	0	0	0	BANK 3	OFF	BANKII	OFF
Same	OVER	ALL VAL	UES	OVER	ALL VA	LUES	BANK 4	OFF	BANK12	OFF
FREQUENCY		¢.			0		BANK 5	CFF	BANK13	OPF
KW		0			0		BANK 6	OFF	BANK14	OFF
KVAR		0			0		BANK 7	CPP	BANK15	CPP
KVA		0			0		BANK 8	OFF	DANK16	OFF
PF		3,377			7.7??					
KWH Da	ta Depinica	ding Sa					-			
KVARH_INI KVARH_CA 2 KVAH	one Detail f	or Panel Id	00000001	not present	Plesse en	terzone d	ietail.			
EVENIS					Yes	_	No			
Panel I	0			Select	Date/1	ine .		Ê	select Repor	t Type

Picture: Instantaneous Data



5. Records

There are 2 options in "Records" menu:

a. Interval Log Records

b. View Fault Records

a. Interval Log records

- To view "Interval Records" of any APFC, Click "Records" Tab then click "Interval Records".
- o In Record Viewer Window, select Panel ID of that APFC Unit.
- Select "From date" and "To date" and click on "INTERVAL RECORDS" to view data.
- Date Selection is depends on Log time, i.e log time is 10 Min.,15 Min.,30 Min.,60 Min., then date selection must between 15,22,45,90 days respectively.
- o If data is not present in database for selected dates, it gives message "No Records Present".
- If data is present, it will display available data between "From date" and "To date".
- Click on particular grid row to view all records of selected row.
- It also shows Capacitor Banks Status of selected row.
- "SHOW REPORT" button shows report of Interval Report except "STEP KVAR BANK" and Fault Abbreviation.
- "CREATE EXCEL FILE" button create excel file of available data for the selected Panel ID, for the Interval, "From Date and To Date".
- Excel File shows all parameters, except "STEP KVAR BANK" value.





Interval Log Records:

Site Details:- Serial Number: 4600061400004. Panel Rating: Transformer KVA: 500 Location: Feeder Name: osasas Date Time Vi Vy Vb VTHD bit 0 IftHD PF PREQUENCY ACTIME POWER 110:144 0100 PM 250 249 250 65 990.9 992.5 982.4 76 1.000 50 773.3 110:144 0200 PM 250 250 250 981.5 982.5 982.4 76 1.000 50 773.3 110:14 02000 PM 250 250 255 981.5 982.5 982.4 76 1.000 50 773.4 110:14 02000 PM 253 253 65 989.3 1002.7 1001 76 1.000 50 751.5 110:14 91000 PM 253 253 253 989.7 1002.5 1001 76 1.000 50 761.5 110:14 92000 PM <th>Data to be</th> <th>e viewed</th> <th>or:- Pa</th> <th>ineHD:</th> <th>00000001</th> <th>From</th> <th>: 11-01-14</th> <th></th> <th>• To: 25</th> <th>01-14</th> <th>·</th> <th>INTE</th> <th>RVAL RE</th> <th>CORDS</th> <th>SHOW REPO</th> <th>RT</th>	Data to be	e viewed	or:- Pa	ineHD:	00000001	From	: 11-01-14		• To: 25	01-14	·	INTE	RVAL RE	CORDS	SHOW REPO	RT	
Date Time Vi Vy Vb VTHD is fy ib ITHD PF FREQUENCY ACTIVE POWER 11-01-14 8:10:00 PM 250 243 250 65 973.7 981.6 981.8 76 1.000 50 738.2 11-01-14 8:20:00 PM 250 249 250 65 980.9 982.2 982.4 76 1.000 50 738.2 11-01-14 8:20:00 PM 250 250 65 981.5 988.2 982.4 76 1.000 50 738.2 11-01-14 8:20:00 PM 253 253 65 981.5 983.6 982.9 76 1.000 50 761.7 11-01-14 9:00:00 PM 253 253 253 65 988.4 1002.8 1000.9 76 1.000 50 761.7 11-01-14 9:00:0PM 253 253 253 65 988.7 1002.8 1000.9 <	Site Dete	uils:-		Serial N Panel F	umber: 4 Rating: 7	1600061400 12	0004.	Trans Locat	former KV tion: Nasii	A : 500			Feede Area: A	min Name: a	00000		
11-01-14 81000 PM 250 249 250 65 979.7 981.6 981.8 76 1.000 50 736.2 11-01-14 82000 PM 250 249 250 65 990.9 982.5 982.2 76 1.000 50 738.2 11-01-14 82000 PM 250 250 250 250 65 991.5 982.2 982.4 76 1.000 50 738.2 11-01-14 84000 PM 250 250 250 250 891.5 983.6 982.9 76 1.000 50 738.2 11-01-14 84000 PM 253 253 253 253 983.4 1002.7 1001 76 1.000 50 761.5 11-01-14 91000 PM 253 253 253 855 998.2 1002.8 1000.9 76 1.000 50 761.5 11-01-14 91000 PM 253 253 253 855 998.8 1002.8 1000.9 76 1.000 50 761.7 <td colspa<="" th=""><th>Date</th><th>Time</th><th></th><th>Ve I</th><th>Vy</th><th>Vb</th><th>VTHD</th><th></th><th>E</th><th>v I</th><th>lb [</th><th>ITHD</th><th>PF</th><th>FREQUENCY</th><th>ACTIVE POWER</th><th></th></td>	<th>Date</th> <th>Time</th> <th></th> <th>Ve I</th> <th>Vy</th> <th>Vb</th> <th>VTHD</th> <th></th> <th>E</th> <th>v I</th> <th>lb [</th> <th>ITHD</th> <th>PF</th> <th>FREQUENCY</th> <th>ACTIVE POWER</th> <th></th>	Date	Time		Ve I	Vy	Vb	VTHD		E	v I	lb [ITHD	PF	FREQUENCY	ACTIVE POWER	
11-01-14 9 2000 PH 250 249 250 65 980.9 982.5 982.2 76 1.000 50 737.3 11-01-14 8:30.00 PM 250 250 250 65 981.5 982.2 982.4 76 1.000 50 738.4 11-01-14 8:30.00 PM 250 250 250 65 981.5 988.6 982.2 982.4 76 1.000 50 738.4 11-01-14 8:50.00 PM 253 253 253 65 988.3 1002.7 1001 76 1.000 50 751.5 11-01-14 9:00.00 PM 253 253 253 65 988.2 1000.3 76 1.000 50 761.5 11-01-14 9:00.00 PM 253 253 253 65 988.7 1002.5 1001 76 1.000 50 761.5 11-01-14 9:00.00 PM 253 253 253 65 988.7 1002.5 1001 76 1.000 50 761.5 11-01-14 9:00.00 PM 253 253 253 65 988.7 1002.8 1000.9 76 1.000 50 761.7	11-01-14	8.10.00 P	4	250	249	250	65	97	9.7 96	1.6 9	1.8	76	1.000	50	736.2		
11-01-14 0.3000 PM 250 250 250 250 65 901.5 982.2 982.4 76 1.000 50 738.2 11-01-14 8.4000 PM 250 250 250 65 991.5 982.2 982.4 76 1.000 50 738.4 11-01-14 9.000 PM 253 253 253 253 983.3 1002.7 1001 76 1.000 50 761.7 11-01-14 9.000 PM 253 253 253 65 998.4 1002.8 1000.3 76 1.000 50 761.5 11-01-14 9.000 PM 253 253 253 65 998.7 1002.5 1000.3 76 1.000 50 761.5 11-01-14 9.200 PM 253 253 253 65 998.7 1002.5 1000.3 76 1.000 50 761.5 11-01-14 9.200 PM 253 253 253 65 998.8 1002.5 1000.3 76 1.000 50 761.7 <td col<="" td=""><td>11-01-14</td><td>8.20.00 P</td><td>a l</td><td>250</td><td>249</td><td>250</td><td>65</td><td>98</td><td>0.9 96</td><td>25 9</td><td>2.2</td><td>76</td><td>1.000</td><td>50</td><td>737.3</td><td></td></td>	<td>11-01-14</td> <td>8.20.00 P</td> <td>a l</td> <td>250</td> <td>249</td> <td>250</td> <td>65</td> <td>98</td> <td>0.9 96</td> <td>25 9</td> <td>2.2</td> <td>76</td> <td>1.000</td> <td>50</td> <td>737.3</td> <td></td>	11-01-14	8.20.00 P	a l	250	249	250	65	98	0.9 96	25 9	2.2	76	1.000	50	737.3	
H101:14 8:40:00 PM 250 250 250 85 981.5 983.6 982.9 76 1.000 50 738.4 11:01:14 8:50:00 PM 253 253 253 253 253 1002.7 1001 76 1.000 50 738.4 11:01:14 9:00:00 PM 253 253 253 253 85 998.4 1002.8 1000.3 76 1.000 50 761.5 11:01:14 9:10:00 PM 253 253 253 85 998.2 1003 1000.9 76 1.000 50 761.5 11:01:14 9:20:00 PM 253 253 253 85 998.8 1002.5 1001 76 1.000 50 761.5 11:01:14 9:30:00 PM 253 253 253 85 998.8 1002.8 1001 76 1.000 50 761.7 SHOW STEP KVAR BANKS CREATE EXCEL FILE Indications Voltage 253 253 761.7 KVAR 0	11-01-14	8.30.00 P	4	250	250	250	65	98	1.5 96	3.2 9	2.4	76	1.000	50	738.2		
H101:14 8:50:00 PM 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253	11-01-14	8:40:00 P	4	250	250	250	65	98	1.5 96	3.6 9	2.9	76	1.000	50	738.4		
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B Y B PF 1.000 Microsoft CREATE EXCEL FILE Indications Voltage 253 253 65 998.8 1002.8 1000.3 76 1.000 50 761.7 Indications CREATE EXCEL FILE Indications Voltage 253 253 253 65 998.8 1002.8 1000.3 76 1.000 50 761.7 KVAR BANKS CREATE EXCEL FILE Indications KVARH_IND 0.2 KvAR 761.7 KVARH_CAP 0.2 KVAR 41.8 KVA 761.7 BANK NOT USEI VIHD 65 IIHD 76 57.5 BANK COFF Frequency 50 57.5 KVAH 57.5 BANK FAULTY	11-01-14	9.20.00 P	4	253	253	253	65		8.7 10	2.5 1	001	76	1.000	50	761.5		
SHOW STEP KVAR BANKS CREATE EXCEL FILE EVENTS Over Load, Over Current, Control Fault 1, R Y B PF 1.000 KVARH_IND 0.2 Voltage 253 253 253 KW 761.7 KVARH_CAP 0.2 Vitto 65 ITHD 76 KWH 57.5 KWA 761.7 Frequency 50 KVAH 57.5 KVAH 57.5 KVAH 76.7	11-01-14	9.30.00 P	4	253	253	253	65	- 99	8.8 10	2.8 10	00.9	76	1.000	50	761.7	+	
EVENTS Over Load.Over Current.Control Fault 1. R Y B PF 1.000 KVARH_IND 0.2 Voltage 253 253 253 253 KW 761.7 KVARH_CAP 0.2 VTHD 65 ITHD 76 KVAR 4.8 KVA 761.7 Frequency 50 KVAH 57.5 KVAH 57.5		-	SHUM	STEP	KVAR B/						-	CREAT	E EXCEL	FILE			
R Y B PF 1.000 KVARH_IND 0.2 Voltage 253 253 253 253 263 KW 761.7 KVARH_CAP 0.2 Current 998.3 1002.7 1001 KVAR -1.8 KVA 761.7 VTHD 65 ITHD 76 KWH 57.5 SANK OFF BANK FAULTY Frequency 50 KVAH 57.5 KVAH 57.5 SANK FAULTY			31101	, orer ,								-					
Voltage 253 253 253 253 253 KW 761.7 KVARH_CAP 0.2 Current 993 1002.7 1001 KVAR 4.18 KVA 761.7 KVA BANK NOT USE VTHD 65 ITHD 76 KWH 57.5 KVA 761.7 Frequency 50' KVA 57.5 KVAH 57.5 BANK FAULTY	EVENTS	Over Lo	ad.0v	er Currer	nt.Contro	l Fault 1,											
Current 998.3 1002.7 1001 KVAR -1.8 KVA 761.7 VTHD 65 ITHD 76 Frequency 50 KVAH 57.5	EVENTS	Over Lo	ad,Ov	er Currer B	nt, Contro PF	l Fault 1,	1.000	- F	VARH_IND	(12	_			Indications		
VTHD 65 ITHD 76 KWH 57.5 Frequency 50 KVAH 57.5	EVENTS Voltage	Over Lo	ad,Ov Y 253	er Currer B 253	nt.Contro PF KW	l Fault 1,	1.000	K	VARH_IND	(2				Indications		
BANK FAULTY S0 KVAH 57.5	EVENTS Voltage Current	0ver Lo R 253 998.3	ad,Ov Y 253 002.7	er Currer 8 253 1001	nt, Contro PF KW KVAR	I Fault 1,	1.000 761.7 -1.8	K	VARH_IND VARH_CAP KVA	0	12				Indications O BANK NOT U	SED	
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	Voltage Current VTHD	Over Lo R 253 998.3 65	ad,Ov Y 253 002.7 THD 50	er Currer 8 253 1001 76	PF KW KVAR KWH	l Fault 1,	1.000 761.7 -1.8 57.5 57.5	K	VARH_IND VARH_CAP KVA	(12				Indications BANK NOT U BANK ON BANK OFF BANK FAULT	SED	
Rank 1 Rank 2 Rank 3 Rank 4 Rank 5 Rank 6 Rank 7 Rank 8 Rank 9 Rank 10 Rank 11 Rank 12 Rank 13 Rank 14 Rank 15 Rank 16	EVENTS Voltage Current VTHD Frequency	0ver Lo R 253 998.3 65	ad,Ov Y 253 002.7 THD 50	er Currer 8 253 1001 76	PF KW KVAR KWH KVAH	I Fault 1.	1.000 761.7 -1.8 57.5 57.5	K	VARH_IND VARH_CAP KVA	((76	12				Indications O BANK NOT U O BANK ON O BANK OFF O BANK FAULT	SED	
	ENTS Itage ment FHD parency	Over Lo R 253 998.3 65 Bank 1	ad,Ov Y 253 002.7 THD 50 Bank 2	er Currer 8 253 1001 76 Bank 3	PF KW KVAR KVAR KVAH Bank 4	I Foult 1,	1.000 761.7 -1.8 57.5 57.5 Bank 6	Bank 7	VARH_IND VARH_CAP KVA Bank 8	((76 Bank 9 Ba	12 12 1.7 mk 10	Bank 11	Bank 12 B	ank 13 Bank 1	Indications O BANK NOT U O BANK ON O BANK OFF O BANK FAULT 4 Bank 15 Bani	SED Y	

Picture: Interval Log Records

> STEP KVAR BANK

- This grid or any other report does not show STEP KVAR BANK parameter. If one want to view STEP KVAR parameter, click on button "SHOW STEP KVAR BANKS", and enter password. It will shows parameter for STEP KVAR BANKS.
- If one wants STEP KVAR BANK parameter in excel file, click on button "SHOW STEP KVAR BANKS" and enter password and then, click on "CREATE EXCEL FILE" button.
- For Maintenance report, enter password for STEP KVAR and click on "SHOW REPORT" button.



ata to be	e viewe	d for:- P	anel-ID	00000001	 From 	n : 11-01-1	14	• To: 2	4-01-14	•	INT	ERVAL REC	ORDS	SHOW REPOR	т
Site Detr	uils:-		Serial I Panel	Number: 4 Rating: 7	50006140 2	0004.	Trar Loc	asformer KN ation: Nasi	/A: 500 k			Feeder Area: Am	Name: aa bad	8888	٦
Date	T	ine	Vr	Vy	Vb	VI	CHD	lr	ly	lb	ITH) PF	FREQUENCY	ACT_POW	-
20-01-14	4:40	100 AM	228	227	228	1	19	891.9	893	893.7	128	1.000	50	611.2	
20-01-14	4.50	100 AM	228	229	228	1 1	19	894.1	895.1	895.3	128	1.000	50	613.5	
20-01-14	5:00	:00 AM	228	228	226	1 1	19	893.3	894.3	894.7	128	1.000	50	612.6	
20-01-14	5:10	00 AM	229	228	228	1	19	896.1	897.2	898.4	128	1.000	50	616.8	
20-01-14	5:20	100 AM	229	228				896.9	898.3	898.8		1.000			
20-01-14	5:30	:00 AM	229	229	225	1	19	897	899	898.9	128	1.000	49.9	618.5	
20-01-14	5:40	100 AM	228	229	229	1 1	19	895.2	897.7	896.4	128	1.000	49.9	617	
20-01-14	5.50	100 AM	228	228	225	1	19	894.9	896.6	898.8	128	1.000	49.9	616.2	
20-01-14	6:00	100 AM	229	228	225	1 1	19	896.4	897.5	898.2	128	1.000	50	617.5	v
		SHO	W STEP	KVAR BA	NKS						CREA	TE EXCEL F	ILE		
EVENTS	RESU	JME OK													
	B	Y	B	PF		1.000		KVARH_IND		0.3			a	Indications	
Voltage	229	228	229	KW		617.8		KVARH_CAP		9.1					ED
Current	896.9	898.3	898.8	KVAR		-7		KVA		617.8				BANK ON	
VTHD	119	ITHD	128	KWH		1131.8		C-KVAR		0				BANK OFF BANK FAULTY	
requency		50		KVAH		1131.8		C-KVARH		0					

Maintenance records for Interval:

Picture: Interval Log Records with Step KVAR Parameter.

> Show Report:

1) "Data-View" software is tested with HP Laser Jet 1010 with 4si driver for report printing.

2) If operating system of working computer is Windows XP (Service Pack 3) or Windows 7 or Windows 8 user can make report visible by using "Microsoft XPS document writer" and then can take print out using working computer.

3) In "Interval Records Form" selects Panel Id, From Date, and To Date to view records. Click on "Show Report" button and select "Microsoft XPS document writer" and click on print button.

4) Once report is visible then click print button in the form select working printer and click on print button to take print out.

TAS

Data View User Manual

b. View Fault Record

- o To view "View Fault Record", of any APFC Unit, select Panel ID of that APFC Unit.
- Select "From Date" and "To Date" and click on "SHOW FAULT", to view data.
- Date Selection is depends on Log time ,i.e log time is 10 Min.,15 Min.,30 Min.,60 Min., then date selection must between 15,22,45,90 days respectively.
- If data is not present in the database for selected dates, it gives message "Records not present".
- o If data is present, it will display data between "From Date" and "To Date".
- Click on grid row to view faults of selected row.
- "CREATE EXCEL FILE" button create excel file for selected Panel ID, for the Interval of "From Date and To Date".

Data to b	e viewed f	or:- Pane	HD 00	000001	From	: 11-01-14	▼ To	17-02-14		SHOWF	AULT	SHOW REPORT
Descrip	tion	Serial M Panel	Number Rating	: 46000 : 72 KV/	51400004. NR	I	Fraffo KVA:	500 KVA Nasik		Feeder Nam Area:	e: aaaaaa Ambad	
Date	Time		ά [Vu	Vb	lr	lu lu	њ	PF	FREQUENCY	ACTIVE POWER	REACTIVE POT
16-01-14	1:49:59 PM	2	32	232	232	908.8	909.8	910.7	1.000	50	634.5	55
16-01-14	7:49:57 PM	2	31	230	230	902.7	904.3	904.9	1.000	50	626.3	48
17-01-14	1:49:58 AM	2	31	231	231	905.3	906.3	907.1	1.000	50	629.4	45
17-01-14	7:49:57 AM	2	31	230	230	904.3	905.6	906.1	1.000	50	628	-5.9
17-01-14	1:49:58 PM	2	31	231	231	906.6	907.3	908.3	1.000	50	631.2	-57
17-01-14	7:49:58 PM	2	30	230	230	901.7	903.3	903.2	1.000	49.9	624.7	-7.4
18-01-14	1:59:55 AM	2	32	231	231	906.9	907.8	908.1	1.000	50	631.7	-5.9
18-01-14	7:59:55 AM	2	31	230	230	903.9	905.5	905.5	1.000	50	627.7	-6 .
18.01.14	1-69-65 PM	2	30	230	230	9024	903.4	903.9	1.000	50	625.2	47 *
	5	HOW S	TEP KV	AR BAN	IKS					CREATE E	XCEL FILE	
	Control	Fault 1,C	ontrol I	Fault 2,1	/oltage H	larmonics.	•					
FAULTS				Flut 1	6	31.2	KVARH_IN	D	0.3		6	Indications
FAULTS	R	B		NW				-	5.8			
Voltage	R 231 2	1 231	-	VAR		5.7	KVARH_C/	P	2.0			O DAME NOT LIFED
Voltage Current	R 231 2: 906.6 90	B 1 231 7.3 908	3	WAR WH	8	5.7 04.3	KVARH_CA	ም	631.2	_		 BANK NOT USED BANK ON
FAULTS Voltage Current requency	R 231 2: 306.6 30	B 1 231 7.3 908. 0	3 I	WAR WH WAH	8	5.7 04.3 04.3	KVARH_C/	P	631.2			BANK NOT USED BANK ON BANK OFF BANK FAULTY
Voltage Current requency PF	R 231 23 306.6 90 5 1.0	7 B 1 231 7.3 908 0 00	3 1 K	VAR WH VAH	8	5.7 04.3 04.3	KVARH_C/	P	631.2	_		 ○ BANK NOT USED ● BANK ON ○ BANK OFF ● BANK FAULTY
Voltage Current requency PF	R Y 231 2: 906.6 90 5 1.0 Bank 1 1	B 1 231 7.3 908: 0 00 Bank 2 1	3 1 K Bank 3	VAR WH VAH Bank 4	8 8 Blank 5	5.7 04.3 04.3	Bank 7 Bank	8 Bank 9	631.2 Bank 10	Bank 11 Bank 1	2 Bank 13 Bank	BANK NOT USED BANK ON BANK OFF BANK FAULTY 14 Bank 15 Bank 16
Voltage Current requency PF	R N 231 2 906.6 90 5 1.0 Bank 1 N	B 1 231 7.3 308 0 00 Bank 2 1	Bank 3	VAR WH VAH Bank 4	8 8 Bank 5	5.7 04.3 04.3 Bank 6	Bank 7 Bank	8 Bank 9	631.2 Bank 10	Bank 11 Bank 1	2 Bank 13 Bank	BANK NOT USED BANK ON BANK OFF BANK FAULTY Bank 15 Bank 16

Picture: Event Fault Records

Nov 27, **2016**

Page **14** of **33**



> STEP KVAR BANK

- This grid does not show STEP KVAR BANK parameter. If one wants to view step KVAR parameter click on button "SHOW STEP KVAR BANKS" and enter password and click on "OK" button, it will show parameter for STEP KVAR BANKS.
- If one wants STEP KVAR BANK in excel file click on "SHOW STEP KVAR BANKS" button and enter password and then click on "CREATE EXCEL FILE" button to create excel file.



Maintenance records for Event Fault:

Picture: Event Fault Records with Step KVAR Parameter

6. SEARCH

- 1) It gives information of panel whose data is downloaded in the database.
- One can search panel by selecting its Traffo (Transformer) KVA, Panel KVAR, and Feeder Number.
- 3) One can select any of these parameter or combination of Parameters to search panel information.
- 4) By default none is selected.

NOTE: SELECT ANY VALUE OR COMBINATION OF ABOVE THREE TO SEARCH INFORMATION. SEARCH PANEL ID TAFFO KVA FEEDER NAME PANEL KVAR LOCATION AREA SP ENGINEER NAME ENGINEER NAME LINE MAN 00000001 500 asaasaa 72 Naik Ambad Bhagyathi SSSSSSS vvvvvvvv	CT ANY VALUE OR COMBINATION OF ABOVE THREE TO SEARCH INFORMATION. SEARCH KVA FEEDER NAME PANEL KVAR LOCATION AREA SPENGINEER NAME ENGINEER NAME UNE MAN aaaaaa 72 Nasik Ambad Bhagyashi essesse vvvvvvvv	E: SELECT ANY VALUE OR COMBINATION OF ABOVE THREE TO SEARCH INFORMATION. SEARCH TAFFO KVA FEEDER NAME PANEL KVAR LOCATION AREA SP.ENGINEER NAME ENGINEER NAME LINE MAN OF S00 aaaaaa 72 Nasik Ambad Bhaguarhi essesses vvvvvvvv A
SEARCH PANEL ID TAFFO KVA FEEDER NAME PANEL KVAR LOCATION AREA SP.ENGINEER NAME ENGINEER NAME LINE MAN 00000001 500 aaaaaa 72 Naik Ambad Bhagadhi sssssss vvvvvvvv	SEARCH KVA FEEDER NAME PANEL KVAR LOCATION AREA SP.ENGINEER NAME ENGINEER NAME UNE MAN aaaaaaa 72 Nasik Ambad Bhagyashii sssssss vvvvvvvv	SEARCH D TAFFO KVA FEEDER NAME PANEL KWAR LOCATION AREA SP.ENGINEER NAME ENGINEER NAME LINE MAN OF 1 500 aaaaaa 72 Natik Ambad Bhagnathi sssssss vvvvvvv A
PANELID TAFFO KVA FEEDER NAME PANEL KVAR LOCATION AREA SP.ENGINEER NAME ENGINEER NAME LINE MAN 00000001 500 aaaaaa 72 Nask Ambad Bhagjadhi sssssss vvvvvvvv	SEARCH AREA SPENGINEER NAME ENGINEER NAME LINE MAN aaaaaa 72 Nasik Ambad Bhagyashi sssssss vvvvvvv	SEARCH SPENGINEER NAME FREDER NAME PANEL KVAR LOCATION AREA SPENGINEER NAME EINE MAN OF 0 TAFFO KVA FEEDER NAME PANEL KVAR LOCATION AREA SPENGINEER NAME EINE MAN OF 1 500 aaaaaaa 72 Nasik Ambad Bhagvashi sssssss vvvvvvvv A
00000001 500 aaaaaa 72 Narik Ambad Bhagadhii sessess vvvvvvv	aaaaaa 72 Nasik Ambad Bhagyashii essesse vovvovv	500 aaaaaa 72 Narik Ambad Bhagaadhii essesses vovvvvv A

Picture: SEARCH

7. Edit Parameter

- 1) Click On Parameter Tab. It shows Parameter read-write Window.
- 2) Click on "READ APFC VALUES" button to read the "Edit Parameter" of APFC.
- 3) Parameters are displayed in the form according to the menu structure of the APFC.
- 4) "DEFAULT" button is used to set default Parameters of APFC on form field.
- 5) "EDIT" button allows you to enable all the fields for user to make necessary changes in Parameter values.
- 6) "WRITE VALUES TO APFC" button is be used to write edited parameter into the APFC.

READ APEC VALUES	WRITE VALUES TO APEC	DEFAULT	EDIT
General I/O	Control Fault (Enable:1 / Disable:0) : [nutre	Utilization Counter :	Utwasel back 1 : 12
el ID :	Under Load KW Fault (Enable: 1 / Osable: 0): Bilder		Unequal bank 2 : 12
sword (Enable11 / Dashe V stile : 0 1:	Under Load Limit(%)		Unequal bank 3 : 12
inge Password 0000	Under Load Resume(%) III		Unequal back 4 + 18
I (%) to display THO:1 / R-THD=01: Erable			threated back 5 + 18
et Energy Counter Disble	Over Current Line(%): 100		Unequal bank 6 : 20
Systems	Over Current Resume(%): 25	Stops	Verseusal bank 7 : 40
errent CT Pri MAINS: 0000	Tempreture Fault(Fast DIT: 4 / Disable :0) : FarCt	Step Connected: 16	three and bank # - 50
Upper Limit: 0.999	Tempreture Upper Cenit : 70	Capacitive Bank Voltage: 440	Unerstal bank 9 50
Lower Limit : 0.990	Tanproture Lower Lawit : 60	Correction Time (Sec) : 120	Unrenal back 10. 70
ase Auto Sync : Dealer	Out Of Banks (Knable:1 / Disable:0) : English		
	Harmonic OverLoad Fast Off:4/Disable:0) : FarOt 3	Concruitive (news) : 60	
	V-THD Threshold Limit(%) : 🥴	Fixed Bank Setting	00
Faults	I-THO Threshold Linet (%) : 25	81. 11. 12. 11. 12. 11. 11. 11.	Usequal basis 11 100
r voltage Line(re): 113	Harmonic Fault Auto Reset (Enable: 1 / Endle) Deable:0 1	. IS M IG M IZ M III	Usequal bank 14 125
r Voltage Parsumo(%) : 109	Harmonic Fault Reset(Sec): 0100	83. # 810 # 811 # 812 #	Unsequal black 15 150
er voltage LIMIT(%):		813 📷 874 📷 815 📷 816 📷	Unsequal bank 16 : 180
er Voltage Rasume(%): 7	Eark Health Tolerence(%) : 20		

Picture: Edit Parameter

- 7) User can take print out of these Edit Parameters.
- 8) User need to select Panel Id and Date, Time of that Panel and then click on "SHOW REPORT" button to get print of "Edit Parameter".

8. Setting

There are 3 options in Setting:

a. Modify Login Password b. Modify STEP KVAR c. Edit Zone Details

a. Modify Login Password

- To change login password, click on Setting menu and open "Modify Login Password" form.
- User name is automatically selected in username field.
- \circ $\;$ Enter old password and enter new password.
- \circ If old password entered is correct, then only software accept the new password.

Communication Pacenda Search Parameter Setting	y Abour Us But				
	an fail in a				
	User Name : Old Password : Now Password :	Unite Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes Incomes			
		Picture: Mo	dify Login Passwor	d	

b. Modify STEP KVAR Password

- To change STEP KVAR password, click on Setting menu and open "Modify Login Password" form.
- Enter old password and new password. If entered old password is correct it will set & save new password as STEP KVAR password.

unication Records Search Paramete	er Setting About Us Duit	
	Old Password :	
	New Password :	
	MODIFY EXIT	

Picture: Modify STEP KVAR

c. Edit Zone Details

- o To edit zone details, click on "Setting" and open "Edit Zone Details" form.
- o Grid shows details of downloaded panel.
- To edit any record, click on grid and then click "Edit" button that enables the entire field (Except Serial Number and Panel Id) to edit information.
- o One cannot edit Serial Number and Panel ID.
- Once user edits all fields, click on "Modify" to save record. By default "MODIFY" button is disable .To make use of this button user need select record from grid and click on "EDIT" button.
- To delete any record, select record from grid and click on "DELETE" button. It will delete that record and also database created for that panel.
- "CLEAR" button allows clearing of all the fields except Serial Number, Panel ID. By default
 "CLEAR" button is disabled. When user on click "EDIT" button then "CLEAR" button get enable to use.

Picture: Edit Zone Detail

9. Sample Data Report

Note: (Reports are NOT with actual data)

1) Performance Report

			AP	FC IN	STANT	ANEO	US REPO	DRT		
			PE	RFOR	MANCE	REPO	RT			
PF Pane	I ID:	00000001					Panel KV	AR: 72	KVAR	
DA	TE :	20-03-14					т	ME:	9:09:38 PM	
			11	ISTAN	TANEOU	JS DATA	LOG			
	Before	e Comper	sation	After	Compen	sation		BANK ST	ATUS	
	R	Y	в	R	Y	в	BANK 1	OFF	BANK 9	OF
VOLTAGE	0	0	0	0	0	0	BANK 2	OFF	BANK 10	OF
CURRENT	0	0	0	0	0	0				
	ov	ERALL VAL	UES	ov	ERALL VAL	UES	BANK 3	OFF	BANK 11	OF
FREQUENCY		0			0		BANK 4	OFF	BANK 12	OF
KW		0			0		BANK 5	OFF	BANK 13	OF
KVAR		0			0		BANK 6	OFF	BANK 14	05
KVA		0			0		- Daniel G	VIP	DANK 14	
PF		2.772			7.777		BANK 7	OFF	BANK 15	OF
күүн			()			BANK 8	OFF	BANK 16	OF
KVARH_IND			()						
KVARH_CAP			()						
KVAH			()						
EVENTS			RESU	ME OK						

Instantaneous Report

Page No.: 1

Picture: Performance Report

2) Interval Record Report

From Da	ite :	11-01	-14	To D	ate :	25-01-14				Pan	el ID :	00000001	Pan	el KVAR	: 72 K)	AR 1	Transformer KVA :	500	
Feeder Ni	eme :	888888				L	ocation :	Nask					Area	: Amb	ad				
DATE	TIME	VRN	VYN	VBN	VTHD	IR	- IY	18	ITHD	FREQ	KW	KVAR	KVA	PF	KWH	KVARH (IND)	KVARH (CAP)	KVAH	EVENT
11-01-14	18.30	248	248	248	65.0	778.5	779.6	779.3	76.0	50.0	581.0	-1.8	581.0	1.000	42.5	0.1	0.2	42.5	C1,C2,
11-01-14	18.40	248	248	248	65.0	778.3	779.9	779.5	76.0	50.0	580.7	-1.8	580.7	1.000	43.3	0.1	0.2	43.3	C1,C2
11-01-14	18.50	248	248	248	65.0	778.1	779.8	779.8	76.0	50.0	580.9	-1.6	580.9	1.000	44.3	0.1	0.2	44.3	C1,C2,
1-01-14	19.00	248	248	248	65.0	778.3	780.0	779.1	76.0	50.0	580.8	-1.6	580.8	1.000	45.1	0.1	0.2	45.1	C1,C2,
11-01-14	19.10	248	248	248	65.0	778.8	780.1	779.8	76.0	50.0	581.4	-1.8	581.4	1.000	45.9	0.1	0.2	45.9	C1,C2,
11-01-14	19.20	248	248	248	65.0	780.4	781.7	781.5	76.0	50.0	583.8	-1.9	583.8	1.000	45.7	0.1	0.2	45.7	C1,C2)
1-01-14	19.30	249	249	249	65.0	978.2	980.3	980.0	76.0	50.0	730.9	7625.1	7660.0	0.095	49.5	0.2	0.2	49.5	OK
11-01-14	19.40	249	249	249	65.0	979.6	980.7	980.3	76.0	50.0	734.6	-2.4	734.6	1.000	50.5	0.2	0.2	50.5	C1,C
1-01-14	19.50	250	249	249	65.0	979.5	961.3	980.5	76.0	50.0	735.5	-2.1	735.5	1.000	51.5	0.2	0.2	51.5	C1,C
11-01-14	20.00	249	249	249	65.0	979.6	981.2	980.8	76.0	50.0	735.4	-2.5	735.4	1.000	52.5	0.2	0.2	52.5	C1,C
11-01-14	20.10	250	249	250	65.0	979.7	981.6	981.8	76.0	50.0	736.2	-1.7	736.2	1.000	53.5	02	0.2	53.5	C1,C
11-01-14	20.20	250	249	250	65.0	980.9	982.5	982.2	76.0	50.0	737.3	-2.4	737.3	1.000	54.5	0.2	0.2	54.5	C1,C
11-01-14	20.30	250	250	250	65.0	981.5	983.2	982.4	76.0	50.0	738.2	-2.2	738.2	1.000	55.5	0.2	0.2	55.5	C1,C
11-01-14	20.40	250	250	250	65.0	951.5	963.6	962.9	76.0	50.0	738.4	-22	738.4	1.000	56.5	0.2	0.2	56.5	C1,C
11-01-14	20.50	283	263	253	65.0	998.3	1002.7	1001.0	76.0	50.0	761.7	-1.8	761.7	1.000	57.5	0.2	0.2	\$7.5	OK
11-01-14	21.00	253	253	253	65.0	998.4	1002.8	1000.3	76.0	50.0	761.5	-2.1	761.5	1.000	58.6	0.2	0.3	58.6	OK
11-01-14	21.10	253	253	253	65.0	998.2	1003.0	1000.9	76.0	50.0	761.5	-2.1	761.5	1.000	59.6	0.2	0.3	59.6	OK
11-01-14	21.20	253	253	253	65.0	998.7	1002.5	1001.0	76.0	50.0	761.5	-2.2	761.5	1.000	60.7	0.2	0.3	60.7	OK
11-01-14	21.30	253	253	253	65.0	8.899	1002.8	1000.9	76.0	50.0	761.7	-1.8	761.7	1.000	61.7	0.2	0.3	61.7	OK
1-01-14	21.40	253	253	253	65.0	998.3	1002.8	1001.1	76.0	50.0	761.7	-2.4	761.7	1.000	62.8	0.2	0.3	62.8	OK
11-01-14	21.50	253	253	253	65.0	997.3	1003.4	1001.4	76.0	49.9	761.6	-3.5	761.6	1.000	63.8	0.2	0.3	63.8	OK
1-01-14	22.00	253	253	253	65.0	998.5	1002.8	1000.9	76.0	50.0	761.4	-1.3	761.4	1.000	64.9	0.2	0.3	64.9	C1,C
1-01-14	22.10	253	253	253	65.0	997.4	1002.4	1001.7	76.0	50.0	761.4	-2.3	761.4	1.000	65.9	0.2	0.3	65.9	OK
1-01-14	22.20	263	283	263	65.0	997.2	1004.0	1001.0	76.0	49.9	761.4	-23	761.4	1.000	67.0	0.2	0.3	67.0	OK.
1-01-14	22.30	253	253	284	65.0	996.5	1003.8	1002.3	76.0	49.9	761.8	-4.1	761.8	1.000	68.0	0.2	0.3	68.0	OK

Picture: Interval Record Report

3) Interval Maintenance Report:

The Maintenance Report is for the use of the Maintenance Team where more in-depth information is presented to them.

			_		CLO	G INTI	ERVA	REP	ORTF	OR M	AINTE	NANC	E (B	ANK S	TATI	JS)			
From D	ate :	11-01-1	4 T	o Date : 2	5-01-14		Panel	ID: 000	00001	Pa	nel KVAR :	72 KVA	R	т	ransforme	r KVA :	500		
Feeder N	ime :	133333				Loca	ition : N	asik				Area :	Ambad						
DATE	TIME	Bankt Status	Bank2 Status	Bank3 Status	Bank4 Status	Bank5 Status	Bank6 Status	Bank7 Status	Bank3 Status	Bank9 Status	Bank10 Status	Bank11 Status	Bank12 Status	Bank13 Status	Bank14 Status	Bank15 Status	Bank16 Status	TEMP. DegC	BV
13-01-14	13.50	OFF	OFF	OFF	OFF	OFF	OFF	OFF	30	3									
13-01-14	14.00	OFF	OFF	OFF	OFF	OFF	OFF	OFF	30	3									
13-01-14	14.10	OFF	OFF	OFF	OFF	OFF	OFF	OFF	30	3									
13-01-14	14.20	OFF	OFF	OFF	OFF	Okk	Okk	OFF	Okk	OFF	ONN	Okk	OFF	OFF	Okk	ONE	OFF	30	3
13-01-14	14.30	OFF	OFF	OFF	OFF	OFF	OFF	OFF	30	3									
13-01-14	14.40	OFF	OFF	OFF	OFF	OFF	OFF	OFF	30	3									
13-01-14	14.50	077	077	077	OFF	077	OFF	077	077	077	077	077	077	077	OFF	077	077	30	3
13-01-14	15.00	OFF	Oth	OFF	OFF	OFF	OFF	OFF	30	3									
13-01-14	15.10	OFF	OFF	OFF	OFF	OFF	OFF	OFF	30	3									
13-01-14	15.20	OFF	OFF	OFF	OFF	OFF	OFF	077	OFF	OFF	OFF	077	OFF	OFF	OFF	OFF	OFF	30	3
13-01-14	15.30	OFF	OFF	Okk	OFF	Ohk	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	Okk	OFF	OFF	30	3
13-01-14	15.40	OFF	OFF	OFF	OFF	OFF	OFF	OFF	30	3									
13-01-14	15.50	OFF	077	OFF	OFF	OFF	OFF	OFF	30	3									
13-01-14	16.00	OFF	ONN	OFF	OFF	Okk	Okk	ONN	OFF	OFF	OFF	Okk	Okk	Okk	Okk	ONN	ONN	30	3
13-01-14	16.10	OFF	OFF	OFF	OFF	Oth	OFF	OFF	OFF	OFF	OFF	Oth	OFF	OFF	OFF	OFF	OFF	30	3
13-01-14	16.20	OFF	OFF	OFF	OFF	OFF	OFF	OFF	30	3									
13-01-14	16.30	OFF	077	077	OFF	OFF	ON	077	ON	077	ON	OFF	OFF	OFF	Okk	OFF	OFF	30	3
13-01-14	16.40	OFF	OFF	OFF	Oth	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	Ohk	OFF	OFF	OFF	30	3
13-01-14	16.50	OFF	OFF	OFF	Ohh	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	30	3
13-01-14	17.00	OFF	OFF	077	OFF	OFF	OFF	OFF	OFF	077	OFF	30	3						
13-01-14	17.10	OFF	OFF	OFF	OFF	OFF	OFF	OFF	30	3									
13-01-14	17.20	OFF	OFF	OFF	OFF	OFF	OFF	OFF	30	3									
13-01-14	17.30	OFF	OFF	OFF	OFF	OFF	OFF	OFF	30	3									
13-01-14	17.40	OFF	OFF	OFF	OFF	OFF	OFF	OFF	30	3									
Interval I	lainten	ance Bar	nk Status	Report												Page	16 O	r 90	5

Picture: Maintenance Report for Interval

4) Event Fault

								DI		CEVE	ENT F/	AULTE	REPORT				
From D	ate :	22-01-	14		To Da	te : 31-	01-14		Panel IC	: 00000	001 Tr	ansformer K	TVA : 56	Pan	el KVAR : 12	KVAR	
Feeder N	ame: aa	88					Locati	0000 : no				Area	: 00000				
DATE	TIME	V RN	VYN	VBN	IR	1Y	1B	FREQ	KW	KVAR	KVA	PF	KWH	(IND)	(CAP)	KVAH	EVENTS
2-01-14	02.09.58	199	198	199	779.9	782.2	783.2	49.9	467.6	-21.1	468.1	0.999	1338/8	0.3	13.5	1338.8	C1,C2,VH,VH
22-01-14	08.09.55	194	193	193	789.7	761.1	763.1	50	443.3	-21.3	443.8	0.999	1362	0.3	14.5	1362	C1,C2,
2-01-14	14.09.57	219	219	218	855.4	858.1	858.9	49.9	554.1	-12.2	564.2	1.000	1387.2	0.3	15.3	1387.2	C1,C2,VH,VF
2-01-14	20.09.57	180	180	180	707.6	709.1	710.3	50	384	-27.2	385	0.997	1409.8	0.3	16.3	1409.8	C1,C2,
23-01-14	02.10.00	187	186	186	733.2	733.7	732.6	50	411	-25	411.8	0.998	1430.1	0.3	17.7	1430.1	C1,C2,VH,VH,
8-01-14	08.10.00	186	185	185	729.9	731.3	732.4	50	408.6	-25.3	409.4	0.998	1450.4	0.3	18.9	1450.4	C1,C2,
23-01-14	14.10.00	202	202	202	791.8	794.3	794.3	49.9	482.4	-19.6	482.8	0.999	1477	0.3	19.6	1477	C1,C2,VH,W
3-01-14	20.10.00	179	178	178	701.9	702.3	705.8	50	377.7	-26.9	378.7	0.997	1499.8	0.3	20.7	1499.8	C1,C2,
4-01-14	02.19.58	221	221	221	867.6	867.7	868.3	50	577.1	-9.8	577.2	1.000	1524.2	0.3	21.6	1524.2	C1,C2,VH,V
4-01-14	08.19.57	180	180	180	706.8	709.1	710.5	50	383.6	-27.1	384.6	0.997	1549.9	0.3	22.4	1549.9	C1,C2,
4-01-14	14.19.58	226	225	226	884.3	885.8	837.8	49.9	601.9	-7.7	601.9	1.000	1570.9	0.3	23.6	1570.9	C1,C2,VH,V
4-01-14	20.19.57	184	184	184	724.6	725.6	727.9	50	402.8	-25.6	403.6	0.998	1598	0.3	24.2	1598	C1,C2,
5-01-14	02.19.58	218	218	218	853.6	855.9	856.8	50	560.5	-11	560.6	1.000	1619.4	0.3	25.4	1619.4	C1,C2,VH,V
8-01-14	08.19.57	207	206	206	812.2	812.2	812.7	50	505.1	-15.3	505.3	1.000	1645.3	0.3	26.1	1645.3	C1,C2,
8-01-14	14.20.00	180	180	180	709.5	711.2	712.5	50	386.2	-27.1	387.1	0.998	1667.3	0.3	27.3	1667.3	C1,C2,VH,V
8-01-14	20,20,00	182	181	181	713.9	716.3	717.6	50	391.2	-26.5	392.1	0.998	1686.7	0.3	28.6	1686.7	C1,C2,
6-01-14	02 20 00	207	206	207	812	812.6	814.4	50	506	-15.1	505.2	1.000	1710.8	0.3	29.5	1710.8	C1,C2,VH,VH
6-01-14	08.20.00	176	176	176	693.5	695.5	696.5	50	368.9	-28.2	370	0.997	1753.8	0.3	30.5	1733.8	C1,C2,
8-01-14	14,29,58	178	178	178	700.5	703.1	708.1	50	377.1	-27.6	378.1	0.997	1756	0.3	31.7	1756	C1,C2,VH,V7
6-01-14	20.29.58	206	206	205	806.4	809.6	809.7	49.9	500.3	-17.8	500.6	0.999	1780.7	0.3	32.5	1780.7	C1,C2,
7-01-14	02 29 58	205	204	204	801.9	802.6	803.4	50	493.1	-17.5	493.4	0.999	1805	0.3	33.4	1805	C1,C2,VH,W
7-01-14	08.29.57	202	202	202	792.8	796.1	796.7	50	484.1	-18.3	484.4	0.999	1829	0.3	34.4	1829	C1,C2,
7-01-14	14,39,55	201	201	201	789.1	790.8	791	50	478.1	-18.6	478.5	0.999	1852.9	0.3	35.3	1852.9	C1,C2,VH,V
7-01-14	20.39.55	200	200	200	785.6	786.3	788.6	50	473.9	-19.7	474.3	0.999	1876.6	0.3	36.3	1876.6	C1,C2,
8-01-14	00.09.55	164	164	164	645.7	648.4	649.7	50	319.9	-31.3	321.4	0.995	1890.3	0.3	36.9	1890.3	UV,C1,C2,

Picture: Event Fault Report

Page **24** of **33**

5) Event Fault for Maintenance

The Maintenance Report is for the use of the Maintenance Team where more in-depth information is presented to them.

				DT	APFO	CEVE	NTR	EPO	RTF	OR M	AINT	ENAN	ICE (STEP	KVAF	<u>२)</u>			
From Da	ate :	10-06-1	4 To Da	te : 10-0	6-14		Panel	ID: 0	0000001		Panel K	WAR: 1	2 KVAR		Tra	nsformer	KVA :	56	
Feeder Na	ime :	3333				Locat	tion : b	000					Area :	00000					
DATE	TIME	C-KVAR	C-KVARH	BANKI KVAR	BANK 2 KVAR	BANK 3 KVAR	BANK 4 KVAR	BANK5 KVAR	BANK 6 KVAR	BANK 7 KVAR	BANK 8 KVAR	BANK 9 KVAR	BANK 10 KVAR	BANK 11 KVAR	BANK 12 KVAR	BANK 13 KVAR	BANK 14 KVAR	BANK 15 KVAR	BANK 1 KVAR
22-01-14	02.09	0.0	0.0	12	12	12	18	18	20	40	50	60	70	80	90	100	128	150	180
22-01-14	08.09	0.0	0.0	12	12	12	18	18	20	40	50	60	70	80	90	100	125	150	180
22-01-14	14.09	0.0	0.0	12	12	12	18	18	20	40	50	60	70	80	90	100	125	150	180
22-01-14	20.09	0.0	0.0	12	12	12	18	18	20	40	50	60	70	80	90	100	125	150	180
23-01-14	02.10	0.0	0.0	12	12	12	18	18	20	40	50	60	70	80	90	100	125	150	180
23-01-14	08.10	0.0	0.0	12	12	12	18	18	20	40	50	60	70	80	90	100	125	150	180
23-01-14	14.10	0.0	0.0	12	12	12	18	18	20	40	50	60	70	80	90	100	125	150	180
23-01-14	20.10	0.0	0.0	12	12	12	18	18	20	40	50	60	70	80	90	100	125	150	180
24-01-14	02.19	0.0	0.0	12	12	12	18	18	20	40	50	60	70	80	90	100	128	150	180
24-01-14	08.19	0.0	0.0	12	12	12	18	18	20	40	50	60	70	80	90	100	125	150	180
24-01-14	14.19	0.0	0.0	12	12	12	18	18	20	40	50	60	70	80	90	100	125	150	180
24-01-14	20.19	00	0.0	12	12	12	18	18	20	40	50	60	70	80	90	100	125	150	180
25-01-14	02.19	00	0.0	12	12	12	18	18	20	40	50	60	70	80	90	100	128	150	180
25-01-14	08.19	00	0.0	12	12	12	18	18	20	40	50	60	70	80	90	100	125	150	180
25-01-14	14.20	0.0	0.0	12	12	12	18	18	20	40	50	60	70	80	90	100	125	150	180
25-01-14	20.20	00	0.0	12	12	12	18	18	20	40	50	60	70	80	90	100	125	150	180
26-01-14	02.20	00	0.0	12	12	12	18	18	20	40	50	60	70	80	90	100	128	150	180
26-01-14	08.20	00	0.0	12	12	12	18	18	20	40	50	60	70	80	90	100	125	150	180
28-01-14	14.29	0.0	0.0	12	12	12	18	18	20	40	50	60	70	80	90	100	125	150	180
26-01-14	20.29	00	0.0	12	12	12	18	18	20	40	50	60	70	80	90	100	128	150	180
27-01-14	02.29	00	0.0	12	12	12	18	18	20	40	50	60	70	80	90	100	125	150	180
27-01-14	08.29	0.0	0.0	12	12	12	18	18	20	40	50	60	70	80	90	100	125	150	180
27-01-14	14.39	0.0	0.0	12	12	12	18	18	20	40	50	60	70	80	90	100	125	150	180
27-01-14	20.39	0.0	0.0	12	12	12	18	18	20	40	50	60	70	80	90	100	125	150	180
Event Ma	aintena	ince Step	KVAR Repor	t												P	aĝe 1	or	2

Picture: Maintenance Report for Event Fault

6) Read Parameter

		DT APFC REPOR		MAINT	AINANC	E (P	ARAME	TER)			
To Date : 08-06-14 11:33:	53	Panel ID : 00000001	PI	anel KVAR :	12 KVAR		Transf	ormer KVA	: 55		
Feeder Name : 2222		Location : 0000			Are	: 00000)				
General I/O Parameters		Fault Parameters		Step	Parameters	,					
Change Password:	0000	Under Load Res(%)	3	Step	s Connecte	d :			16	5	
Password (Disable	Over Current Limit (%)	100	Cap	acitive Bank	Voltag	e:		44	0	
THD (%) to display (F - THD:1 / : R-THD = 0)	Enable	Over Current Resume (%)	95	Disc	ection Time	(Sec.):			12	0	
Reset Energy Counter:	Disable	Tempreture Fault (Fast Off:1 / Disable:0):	Fast Off	Fixe	d Bank Sett	ing :			None	•	
System Parameters		Temp. Upper Limit :	60	Uneo	ual Bank K	VAR					
Current CT Pri Mains:	1000	Temp. Lower Limit :	70					1	1		
PF Upper Limit :	0.999	Out of Bank Fault (Enable:1 / Disable:0)	Enable	B1	12	B5	18	89	60	B13	100
PF Lower Limit :	0.990	Harmonic Over Load (Facility	B2	12	B6	20	B10	70	B14	125
Phase Auto Sync :	Disable	Enable:1/Disable:0)	Chable	B1	12	87	40	B11	80	B15	150
Modal KVAR :	17	V-THD Threshold Limit(%)	5			-	=	042		0.0	100
Fault Parameters		I-THD Threshold Limit(%)	25	16	10	80		812	**	816	100
Over Voltage Lim(%):	113	Harmonic Fault Auto	Enable	Uti	lization Cou	unter					
Over Viltage Res(%)	110	Reset (Enable:1 / Disable:0	- 10								
Under Voltage Lim(%):	68	Harmonic Fault Reset (Sec):	100	UC1	296640	UC5	574211	UC9	686018	UC13	118237
Under Voltage Res(%):	71	Control Fault (Enable	UC2	312000	UC6	101315	UC10	686018	UC14	444224
Under Load KW Fault (Enable:1 / Disable:0):	Enable	Step Health Check (Enable:1 / Disable : 0)	Enable	UC3	017215	UC7	333179	UC11	296540	UC15	762048
Under Load Lim (%)	2	Bank Health Tolerence(%)	20	UC4	920190	UC8	\$18974	UC12	686016	UC16	000000
Edit Parameter for Mainte	enance			_					Page	1 0	1

Picture: Edit Parameter Report

7) Fault Abbreviation

Since all the possible print-outs are defined with Standard Paper Size of "A4", and in the "Landscape" mode (Horizontal), it is not possible to print the Fault Name in full.

Therefore, the print-outs show the abbreviated (short-form) name for the faults.

The respective full form names are as given below:

PD	Power Down	NC	Non-Compensation Mode / Manual /Edit/Auto Mode	
PU	Power Up	BF	Battery Fail	
OF	Over Frequency	CF	Control Fault	
UF	Under Frequency	от	Over Tempreture	
νн	Voltage Harmonics	z٧	Zero Voltage	
ІН	Current Harmonics	СВ	Capacitor Bank/s Faulty	
NF	Neutral Fault	NV	NV Fault	
ov	Over Voltage	AS	Auto Sync Pending	
UV	Under Voltage	C1	Control Fault1	
ос	Over Current	C2	Control Fault2	
UL	Under Load	C3	C1 And C2	
ZC	Zero Current			
OB	Insufficient KVAR Capacity	BL	Battery Low (Needs Replacement)	
	OK No	Fault Si	tuation- Functioning OK	

Picture: Fault Abbreviation

10. Sample Excel Report

Note: (Reports are NOT with actual data)

MS-Office Excel-Sheet format is one of the most popular formats for presenting information in the Tabular Form, not only for easy viewing, but also for further data analysis, Graphs, Plots, and Trending etc.

Therefore, one can use the Excel File generated by "Data-View" Software for analysis, for example, searching, sorting, additional calculations etc., as needed by the user.

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1					TAS: A	PFC Insta	ntaneous	Report											
2			Panel ID :	00000001					Panel Ratin	g : 12 KVAR									
3			Date : 28	8-11-2016					Time : 1	1:01:40									
4			Befo	ore Compens	ation	Aft	er Compensa	tion _											
5			R	Y	В	R	Y	В		Bank	Status	1							
6	Vol	itage 	0	0	0	0	0	0	Bank 1	OFF	Bank 9	NotUsed							
0	Cu	ment	0	U Vor All Valu	0	0	uor All Valu	0	Bank 2	OFF	Bank 10 Bank 11	NotUsed							
9	Frea	uency		0		-	0		Bank 4	OFF	Bank 12	NotUsed							
10	ĸ	<₩		0			0		Bank 5	OFF	Bank 13	NotUsed							
11	K١	/AR		0			0		Bank 6	OFF	Bank 14	NotUsed							
12	ĸ	VA		0			0		Bank 7	OFF	Bank 15	NotUsed							
13	F	PF		?.???			?.???		Bank 8	OFF	Bank 16	NotUsed							=
14	K	WH)													
15	KVAR	RH_IND)													
16	KVAR	H_CAP)													
17	K\	VAH)													
18	Eve	ents			C2,	Ζν,													
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1) Performance Report

Picture: performance Report (Excel)

2) Interval Report

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10	11-01-14	02:30	0	0	0	0	0	0	0	0	2.222	0	0	0	0	0	0	0	0	C1.C2.ZV	1				
11	11-01-14	02:40	0	0	0	0	0	0	0	0	2.222	0	0	0	0	0	0	0	0	C1.C2.ZV	1				
12	11-01-14	02:50	0	0	0	0	0	0	0	0	2.222	0	0	0	0	0	0	0	0	C1,C2,ZV	1				
13	11-01-14	03:00	0	0	0	0	0	0	0	0	2,222	0	0	0	0	0	0	0	0	C1,C2,ZV	1				
14	11-01-14	03:10	0	0	0	0	0	0	0	0	2.222	0	0	0	0	0	0	0	0	C1,C2,ZV	1				
15	11-01-14	03:20	0	0	0	0	0	0	٥	0	2.222	0	0	0	0	0	0	0	0	C1,C2,ZV					
16	11-01-14	03:30	0	0	0	0	0	0	٥	0	2.222	0	0	0	0	0	0	0	0	C1,C2,ZV					
17	11-01-14	03:40	0	0	0	0	0	0	0	0	2.222	0	0	0	0	0	0	0	0	C1,C2,ZV					
18	11-01-14	03:50	0	0	0	0	0	0	٥	0	2.222	0	0	0	0	0	0	0	0	C1,C2,ZV					
19	11-01-14	04:00	0	0	0	0	0	0	٥	0	2.222	0	0	0	0	0	0	0	0	C1,C2,ZV					
20	11-01-14	04:10	0	0	0	0	0	0	0	0	2.222	0	0	0	0	0	0	0	0	C1,C2,ZV					
21	11-01-14	04:20	0	0	0	0	0	0	0	0	2.222	0	0	0	0	0	0	0	0	C1,C2,ZV					
22	11-01-14	04:30	0	0	0	0	0	0	0	0	2.222	0	0	0	0	0	0	0	0	C1,C2,ZV					
23	11-01-14	04:40	0	0	0	0	0	0	0	0	2.222	0	0	0	0	0	0	0	0	C1,C2,ZV					
24	11-01-14	04:50	0	0	0	0	0	0	0	0	2.222	0	0	0	0	0	0	0	0	C1,C2,ZV					
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Picture: Interval Report (Excel)

Nov 27, **2016**

Page **29** of **33**

3) Interval Report for Maintenance

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Picture: Maintenance report for Interval records (Excel)

4) Event Fault

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4		Feeder Name: aaaa Location: bobb Engineers Name: eeee Lines Man: gggg Maintainance Operator: IIIIII Start Date: 11.01.14 To Date: 24.01.14																							
5	Date	Date Time V.R.V.Y.V.B I.R. I.Y. I.B								KW	KVAR	KWH	KVARH	KVA	KVAH	Faluts								_	
5	4 20-01-14	07:59:58	227 22	7 227	891	892.5	893.4	49.9	1.000	610.4	-8.4	1145	0.3	610.5	1145	C1,C2,									
5	5 20-01-14	14:09:55	227 22	7 227	891.8	892.7	893.6	50	1.000	610.5	-7	1175.7	0.3	610.5	1175.7	C1,C2,VH,VH,									
5	6 20-01-14	20:09:55	217 21	6 217	851.2	852	853.8	50	1.000	556.5	-11.8	1204.3	0.3	556.6	1204.3	C1,C2,									
5	7 21-01-14	02:09:55	227 22	6 226	888.8	889.3	889	50	1.000	606	-6.1	1233.4	0.3	606	1233.4	C1,C2,VH,VH,									
5	8 21-01-14	08:09:55	225 22	4 224	880.7	881.7	882.6	50	1.000	595.8	-8.3	1263	0.3	595.9	1263	C1,C2,									
5	9 21-01-14	14:09:55	213 21	3 213	835.8	836.4	837.8	50	1.000	536.4	-13.3	1290.2	0.3	536.6	1290.2	C1,C2,VH,VH,									
6	0 21-01-14	20:09:55	183 18	3 183	719.3	721.5	722.9	50	0.998	397.4	-26.1	1313.2	0.3	398.3	1313.2	C1,C2,									
6	1 22-01-14	02:09:58	199 19	8 199	779.9	782.2	783.2	49.9	0.999	467.6	-21.1	1338.8	0.3	468.1	1338.8	C1,C2,VH,VH,									
6	2 22-01-14	08:09:58	194 19	3 193	759.7	761.1	763.1	50	0.999	443.3	-21.3	1362	0.3	443.8	1362	C1,C2,									
6	3 22-01-14	14:09:57	219 21	9 218	856.4	858.1	858.9	49.9	1.000	564.1	-12.2	1387.2	0.3	564.2	1387.2	C1,C2,VH,VH,									
6	4 22-01-14	20:09:57	180 18	0 180	707.6	709.1	710.3	50	0.997	384	-27.2	1409.8	0.3	385	1409.8	C1,C2,									
0	5 23-01-14	02:10:00	187 18	6 186	733.2	755.7	732.0	50	0.998	411	-25	1430.1	0.3	411.8	1430.1	C1,C2,VH,VH,IH,									
0	6 23-01-14	08:10:00	186 18	5 185	729.9	751.3	732.4	50	0.998	408.6	-25.3	1450.4	0.3	409.4	1450.4	C1,C2,									
0	23-01-14	14:10:00	202 20	2 202	791.8	794.3	794.3	49.9	0.999	482.4	-19.6	1477	0.3	482.8	1477	C1,C2,VH,VH,									
0	23-01-14	20:10:00	223 22	1 221	01.9	067.7	040.3	50	1.000	\$77.7	-20.9	1634.3	0.3	\$75.7	1634.3	C1,C2,									
2	24-01-14	02:17:38	180 18	0 180	206.9	209.1	210.5	50	0.997	393.6	-37.5	15.10.0	0.3	391.2	1549.0	C1 C2									
7	1 24-01-14	14-19-58	226 22	5 224	884 3	885.8	887.8	49.9	1.000	601.9	.7.7	1570.9	0.3	601.9	1570.9	C1.C2.VH.VH									
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Picture: Event Fault report (Excel)

Nov 27, **2016**

Page **31** of **33**

5) Event Fault for Maintenance

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1					DT	APF	C EVI	ENT	LOG	REP	ORT	FOR	MAIN	ITEN	ANC	E(BAI	NK ST	TATU	S)						
2						PAN	L 10: 000	000001	Panel	KVAR:1	Pane	KVA:5	6[Area:	ccccc C	incle Nari	he: dddd									
3				F	eeder N	ame: aa	44 Loc	ation: bi	bb1[E	gineers	Name:	eeee L	ines Man	: gggg	Maintain	ance Ope	erator: ff	1111							
4		0-00	2						Start	Date: 1	1-01-14	To Date	e: 24-01-1	4						100000					
5	Date	Time	Bank1	Bank2'	Bank3*	Bank4'	Bank5*	Bank6"	Bank7*	BankS'	Bank9'	Bank10'	Bank11'	Bank12	Bank13	Bank14	Bank15	Bank16	CRVAR	CKVARH	8V	Temp."			_
6 11	-01-14	01:53:12	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	011	OFF	OFF	075	OFF	OFF	0	0	3	30			
7 11	-01-14	09:29:58	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	0	0	[3]	30			_
8 11	-01-14	09:39:55	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	0	0	3	30			_
9 11	-01-14	10:39:55	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	0	0	3	30			_
10 11	-01-14	15:39:55	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	0	0	3	30			_
11 11	-01-14	16:10:00	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	0	0	1.	30			
12 11	-01-14	16:29:55	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	0	0	3	30			
13 11	-01-14	19:29:57	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	0	0	3	30			_
14 11	-01-14	19:30:12	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	0	0	3	30			_
15 11	-01-14	20:49:55	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	0	0	1	30			_
16 11	-01-14	21:59:56	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	0	0	3	30			_
17 11	-01-14	22:00:00	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	0	0.	3	30			_
18 12	-01-14	10:59:56	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF.	OFF	OFF	OFF	OFF.	OFF	0	0	3	30			
19 12	-01-14	12:39:58	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	0	0	3	30			
20 12	2-01-14	12:49:55	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	0	0	3	30			1
21 12	-01-14	13:09:58	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF.	OFF	0	0	3	30			
22 12	-01-14	22:59:57	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	0	0	3	30			
23 13	8-01-14	01:30:00	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	0	0	3	30			
24 13	8-01-14	07:30:00	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	0	0	3	30			
	H EV	ent Maintena	ince STEP	KVAR-	Event	Hainter	ance BA	JIK STA	rus 🦂	1					1	ALC: NO	Philip								

Picture: Maintenance report for Event fault (Excel)

References

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Page **33** of **33**