



Improvements in Transmission Control Center Alarm Management Practices

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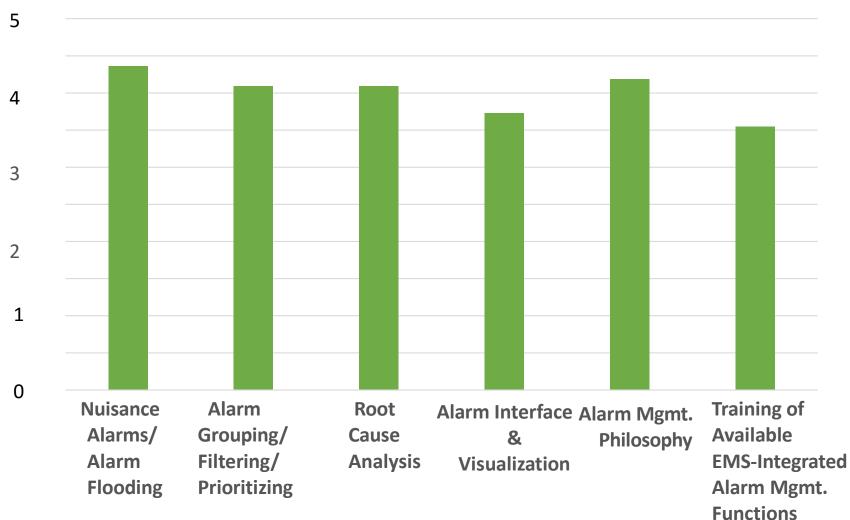
Alarm Management in Control Centers

- Volume & complexity of alarms have been increasing
- Operators interested in better alarm management processes and tools
- EPRI R&D During 2014-2016:
 - 2 Workshops, 2 Surveys, 3 Site Visits, Literature Search
 - Made observations and identified improvement opportunities
 - Prepared a guide to develop an Alarm Management
 Philosophy document
 - Initiated case studies (to address improvement opportunities)

Al C			ACK All	SILENCE	UNIT	N	UNIT C		SysA1G Con M5	10:04:45 02/12/
Alarm Summary		ACK SELECTED	RE-SORT	UNIT	3	UNIT D		System Alarms	SUPPRESSION	
TIME	EVENT	POINT	DESCRIPTION	TYPE	PRI	AREA	UNITS	TIA	STATE	INDE
02/10/16 15:44:12	ALM	477G01C02F	CO2 DO TG - BATERIA 1	OFFNRM	2	M5	STATE	0:00:00		
02/10/16 15:44:11	ALM	142D/103	DENSIDADE SODA DILUIDA	PVLO	3	M8	PSI	0:00:01		
02/10/16 15:44:10	ALM	DMDINTA	DEMAND INTERVAL FLAG A	OFFNRM	4	N11	DEGC	0:00:02		
02/10/16 15.44.09	ALM	TLCPLOT	TLC ENERGY PLOT POINT	LOGIC-A	3	K14	AMPS	0.00.03		
02/10/16 15:44:08	ALM	142D/103	DENSIDADE SODA DILUIDA	PVHI	3	127	PSI	0:00:04		
02/10/1615:44:07	ALM	1705/18	GN PARA COP599	DADPV	3	TT78		0:00:05		
02/10/1615:44:06	ALM	42PHI02	PH AGUA SERVICO P/ CEMAP	PVLO	2	E077	PPH	0:00:06		
02/10/1815:44-84	STN.	ALS_SSUMMER	SOMA AUMENTADOR 5 E9	P/H	1	177	GPH	00008		
02/10/16 15:44:03	ALM	42PAL04	AGUA CLARIFICADA	OFFNRM	3	87N	STATE	0:00:09		
02/10/16 15.44.02	ALM	148LAH24	148B01E SEM ESCORVA	OFFNRM	2	CC34	STATE	0.00.10		
02/10/16 15:44:01	ALM	42PHI02	PH AGUA SERVICO P/ CEMAP	PVHI	3	N11	GPM	0:00:11		
02/10/16 15:44:00	ALM	42A/104	PH AGUA DESCARBONATADA	PVLO	3	K14	MMHG	0:00:12		
02/10/1615:43:59	ALM	47PH/03	PH AGUA CLARIFICADA	PVLO	3	127	FI3/S	0'00'13		
02/10/16 15:43:58	ALM	42PHI01	PH AGUA POTAVEL	PVHI	3	1178	MKS	0:00:14		
02/10/16 15:43:57	RTN	148UC11	NIVEL DO 148V03A	PVLO	2	ED77	PSI	0:00:15		
02/10/16 15:43:56	AUM	42PHI06	PH 42 TQ 148	PVHI	2	BH71	PSI	0:00:16		
02/10/16 15.43.55	ALM	74PAL11	FECHA MINIFLUX 74PV20/21	OFFNRM	2	Y77	STATE	0.00.17		
02/10/16 15:42:55	ALM	170FX22	CONDUTIV 42V05AA	BADPV	3	87N		0.01:17		
02/10/16 15.41.55	ALM	42P1101	ENTRADA O.R.	PVLO	4	CC34	FT3/5	0.02.17		
02/10/1615:40:55	AIM	47PDAH117	PRES DIF ALTA SHE ESTAG	DEENRM	4	N11	STATE	00817		
02/10/16 15:39:55	ALM	42PHI06	PH 42 TO 148	PVLO	4	K14	DEGC	0.04:17		
02/10/1615:38:55	AM	42PHI01	PH AGUA POTAVEL	PMD	4	127	PSI	0.05:17		
						1178		0.06.17		
02/10/1615.36.55	ALM	42CIT02C	CONDUTIV 42V05C	PVHI	3	L27	GPH	0.07.17		
	RTN	148UAH27	TANQUE 148VD4			1178		0.04:17		
02/10/1615:34:55	ALM	148ZALLOG	DOSANDO CLORO	OFFNRM	2	ED77	STATE	0:09:17		
02/10/16 15:33:55	ALM	74PAL01	PRESSAO BAIXA AF RAMAL 1	OFFNRM	4	BH71	STATE	0.10.17		
02/10/1615:02:55	ALM	47PAL18	PRESS M BAIXA EXTRACAO	OFFNRM	4	177	STATE	0.11:17		
02/10/16 15:31:55	ALM	180FI400	GN P/ DA SULGAS	PVHI	4	87N	GPH	0:12:17		
02/10/16 15 30 55	AM	427040103	PRES DIF ALTA SEC.ESTAC	OFFNRM	L	TTVB	STATE	0.13 17		
02/10/16 15.29.55	ALM	42CIT02D	CONDUTIV 42V05D	PVHI	2	ED77	FT3/S	0.14.17		
02/10/16 15:28:55	ALM	174PALCI02	PARTIDA AUTO BBA DIESEL	OFFNRM	3	BH71	STATE	0:15:17		
02/10/16 15.27.55	ALM	42XAL35A	DESLIGADO SKID A	OFFNRM	3	¥77	STATE	0.16.17		
02/10/1615:26:55	RIN	AL5_9SUMMER	SOMA ADMENTADOR: 5 E.9	PVHH	3	87N	FI3/S	01717		
02/10/1615:25:55	ALM	174PALCI01	PARTIDA AUTO DOA DIESEL	OFFNRM	3	TT78	STATE	0.18.17		
02/10/1615:24:55	ALM	148LAH22	148801C SEM ESCORVA	OFFNRM	2	E077	STATE	01917		
02/10/16 15:23:55	ALM	42XAL35C	DESLIGADO SKID C	OFFNRM	2	BH71	STATE	0:20:17		
02/10/16 15:22:55	ALM	42AAH104	CONDUTIV, ALTA SKID	OFFNRM	2	177	STATE	0:21:17		
02/10/16 15:21:55	ALM	42PV117	DESCARGA 42805A/B/C/D/E	PVHI	2	87N	DEGC	0:22:17		



Aug. 2015 Alarm Management Workshop and Follow-Up Survey



Importance of Alarm Management Issues (5=High; 1=Low)



Transmission Control Center Alarm Management Practices – Observations and Improvement Opportunities

3002009925

- 3002009925 Free to public
- 30-Page report published in March 2017
- Contents: Chapter 17 of 3002008274 published in November 2016



Improvement Suggestions

- 1. Develop and adopt an Alarm Philosophy Document
- 2. Segregate TCC alarm data. Isolate "true alarms."
- 3. Assign alarm priorities based on accepted practices
- 4. Ongoing: Monitor alarm system performance using accepted key performance indices (KPIs)
- 5. Identify and resolve the most frequent and nuisance alarms
- 6. Develop new higher level graphics



Definition of An "Alarm"

 IEC/ISA: An alarm is "a visible and audible notification to the operator, of an equipment malfunction, process deviation, or abnormal condition requiring a timely operator response."

- An intentional interruption to the operator
- Reserved only for notification of situations that require the operator to take action
- Timely Response: Immediate to within 30 minutes



Observation: TCC Alarm System

- TCC "alarms" currently consist of <u>scrolling data strings</u> on operator consoles that can be segregated into 3 categorizes:
 - 1. Alarm actionable in immediate timeframe
 - 2. System Status Information for operators' situational awareness
 - 3. Pass Through Information that does not require any operator awareness or action (meant for equipment personnel).



Improvement Suggestion: Segregation of Alarm Data

- 1. TCC Alarm System
 - A separate EMS window to display "true alarms"
- 2. System Status Indication System
 - A different EMS window to display system status notifications (used for situational awareness)
- 3. Pass-Through Information
 - Transmit directly to the interested staff (e.g. equipment SMEs)

This does not require EMS replacement or even upgrade.



EN Segreç	/IS gation:	Now:	CALCUPUS 45 5-4407 Aux CALCUPUS 45 5-4407 Aux CALCUPUS 45 6-4407 Aux CALCUPUS 45 8-4507 Aux CALCUPUS 45 8-5075 Aux CALCUPUS 45 8-5075 Aux CALCUPUS 45 8-5075 Aux	LODIOD LODIOD	Preti 1 127 MON 8 TYS PACO 1 1021 PACO 2 1021 PACO 2 1021 PACO 3 1021 OHISMA 3 1021 OHISMA 3 1021 PACO 3 1021 OHISMA 3 1021 PACO 3 1021 PACO 5 102 PACO 6 102	0 101 0 101 0 101 0	00041 00045 0005 0005 0005 0005 0005 000						
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ALARM Summary TME VENT OUNT 2010 015 58 420 B00 20100000 202/10/15 15 34-35 ALM 1482AL06 02/10/15 15 34-35 ALM 248104 02/10/15 15 34-35 ALM 291102 02/10/16 15 35-39 ALM 291102 02/10/16 15 34-35 ALM 291103 02/10/16 15 34-35 ALM 291103 02/10/16 15 34-35 ALM 291103 <td< td=""><td>ACK ABI SIX ACK SELECTED RE DESCRIPTION RE CODERCENT MATERIALIS REFERENCES DOLANDO CLORO PH AGUA SERVICIÓN A PH AGUA SERVICIÓN A REFERENCES PH AGUA SERVICIÓN A PH AGUA SERVICIÓN A PH AGUA RESCARRONATIÓN A PH AGUA RESCARRONATIÓN A</td><td>UNCE UNIT 8 SORT UNIT 8 OFFEND PAL A OFFEND 2 OFFEND 2 OFFEND 2 OFFEND 2 OFFEND 2 OFFEND 2 OFFEND 3 OFFEND 3 OFFEND</td><td>UNIT C Synth UNIT D Synth Synth Sinth Sinth Sinth Sinth Sinth Sinth Sinth Sinth Sinth <t< td=""><td>Alle Con MS 10.04/45 02/12/16</td><td>STATUS I 07/10/16/3544/12 07/10/16/3544/12 07/10/16/3544/12 07/10/16/3544/10 07/10/16/3544/10 07/10/16/3544/00 07/10/16/3544/00 07/10/16/3544/00 07/10/16/3544/00 07/10/16/3544/00 07/10/16/3544/00 07/10/16/3544/00 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AGUA CREVICO P/</td><td>SILENCE </td><td>UNIT 8 UNIT 8 UNIT 8 ERE 495 K44 S L27 S E077 S E077 S E077 S E077 S C24 S K14 S K14</td><td>UNIT C UNIT D UNITS STATE P51 DEGC AMPS P51 STATE GPH STATE GPH STATE GPH STATE GPH STATE STATE GPH STATE STATE STATE STATE STATE DEGC DEGC P51</td><td>SynA16 Co Syntem Ex Coloro Coloro</td><td>ion MS</td></t<></td></td<>	ACK ABI SIX ACK SELECTED RE DESCRIPTION RE CODERCENT MATERIALIS REFERENCES DOLANDO CLORO PH AGUA SERVICIÓN A PH AGUA SERVICIÓN A REFERENCES PH AGUA SERVICIÓN A PH AGUA SERVICIÓN A PH AGUA RESCARRONATIÓN A PH AGUA RESCARRONATIÓN A	UNCE UNIT 8 SORT UNIT 8 OFFEND PAL A OFFEND 2 OFFEND 2 OFFEND 2 OFFEND 2 OFFEND 2 OFFEND 2 OFFEND 3 OFFEND	UNIT C Synth UNIT D Synth Synth Sinth Sinth Sinth Sinth Sinth Sinth Sinth Sinth Sinth <t< td=""><td>Alle Con MS 10.04/45 02/12/16</td><td>STATUS I 07/10/16/3544/12 07/10/16/3544/12 07/10/16/3544/12 07/10/16/3544/10 07/10/16/3544/10 07/10/16/3544/00 07/10/16/3544/00 07/10/16/3544/00 07/10/16/3544/00 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CREVICO P/ CEMAP SUBJECISAN PH AGUA CREVICO P/ CEMAP PH AGUA CREVICO P/</td><td>SILENCE </td><td>UNIT 8 UNIT 8 UNIT 8 ERE 495 K44 S L27 S E077 S E077 S E077 S E077 S C24 S K14 S K14</td><td>UNIT C UNIT D UNITS STATE P51 DEGC AMPS P51 STATE GPH STATE GPH STATE GPH STATE GPH STATE STATE GPH STATE STATE STATE STATE STATE DEGC DEGC P51</td><td>SynA16 Co Syntem Ex Coloro Coloro</td><td>ion MS</td></t<>	Alle Con MS 10.04/45 02/12/16	STATUS I 07/10/16/3544/12 07/10/16/3544/12 07/10/16/3544/12 07/10/16/3544/10 07/10/16/3544/10 07/10/16/3544/00 07/10/16/3544/00 07/10/16/3544/00 07/10/16/3544/00 07/10/16/3544/00 07/10/16/3544/00 07/10/16/3544/00 07/10/16/3548/00 07/10/16/3548/00 07/10/16/3548/00 07/10/16/3548/00 07/10/16/3548/00 07/10/16/3548/00 07/10/16/3548/00 07/10/16/3548/00 07/10/16/3548/00 07/10/16/3548/00 07/10/16/3548/00 07/10/16/3548/00 07/10/16/3548/00 07/10/16/3548/00 07/10/16/3548/00 07/10/16/3548/00 07/10/16/3548/00 07/10/16/3548/00 07/10/16/3548/00 07/10/16/3548/00 07/10/16/3548/00 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ALARM Summary TME VENT OUNT 2010 015 58 420 B00 20100000 202/10/15 15 34-35 ALM 1482AL06 02/10/15 15 34-35 ALM 248104 02/10/15 15 34-35 ALM 291102 02/10/16 15 35-39 ALM 291102 02/10/16 15 34-35 ALM 291103 02/10/16 15 34-35 ALM 291103 02/10/16 15 34-35 ALM 291103 <td< td=""><td>ACK ABI SIX ACK SELECTED RE DESCRIPTION RE CODERCENT MATERIALIS REFERENCES DOLANDO CLORO PH AGUA SERVICIÓN A PH AGUA SERVICIÓN A REFERENCES PH AGUA SERVICIÓN A PH AGUA SERVICIÓN A PH AGUA RESCARRONATIÓN A PH AGUA RESCARRONATIÓN A</td><td>UNCE UNIT 8 SORT UNIT 8 OFFEND PAL A OFFEND 2 OFFEND 2 OFFEND 2 OFFEND 2 OFFEND 2 OFFEND 2 OFFEND 3 OFFEND 3 OFFEND</td><td>UNIT C Synth UNIT D Synth Synth Sinth Sinth Sinth Sinth Sinth Sinth Sinth Sinth Sinth <t< td=""><td>Alle Con MS 10.04/45 02/12/16</td><td>STATUS I 07/10/16/15/44/12 07/10/16/15/44/12 07/10/16/15/44/12 07/10/16/15/44/10 07/10/16/15/44/06 07/10/16/15/44/06 07/10/16/15/44/06 07/10/16/15/44/06 07/10/16/15/44/06 07/10/16/15/44/06 07/10/16/15/44/06 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<td>SILENCE </td> <td>UNIT 8 UNIT 8 UN</td> <td>UNIT C UNIT D UNITS STATE P51 DEGC AMPS P51 STATE GPH STATE GPH STATE GPH STATE GPH STATE STATE F13/5 STATE P51 DEGC GPH</td> <td>SynA16 Co Syntem Ex Coloro Coloro</td> <td>on MS</td>	Alle Con MS 10.04/45 02/12/16	STATUS I 07/10/16/15/44/12 07/10/16/15/44/12 07/10/16/15/44/12 07/10/16/15/44/10 07/10/16/15/44/06 07/10/16/15/44/06 07/10/16/15/44/06 07/10/16/15/44/06 07/10/16/15/44/06 07/10/16/15/44/06 07/10/16/15/44/06 07/10/16/15/44/06 07/10/16/15/44/06 07/10/16/15/44/06 07/10/16/15/44/06 07/10/16/15/44/06 07/10/16/15/44/06 07/10/16/15/44/06 07/10/16/15/44/06 07/10/16/15/44/06 07/10/16/15/44/06 07/10/16/15/44/06 07/10/16/15/44/06 07/10/16/15/44/06 07/10/16/15/44/06 07/10/16/15/44/06 07/10/16/15/44/06 07/10/16/15/44/06 07/10/16/15/44/06 07/10/16/15/44/06 07/10/16/15/44/06 07/10/16/15/44/06 07/10/16/15/44/06 07/10/16/15/44/06 07/10/16/15/44/06 07/10/16/15/44/06 07/10/16/15/44/06 07/10/16/15/44/06 07/10/16/15/44/06 07/10/16/15/44/06 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UNIT D UNITS STATE P51 DEGC AMPS P51 STATE GPH STATE GPH STATE GPH STATE GPH STATE STATE F13/5 STATE P51 DEGC GPH	SynA16 Co Syntem Ex Coloro Coloro	on MS
ALARM Summary TME VENT OUNT 2010 015 58 420 B00 20100000 202/10/15 15 34-35 ALM 1482AL06 02/10/15 15 34-35 ALM 248104 02/10/15 15 34-35 ALM 291102 02/10/16 15 35-39 ALM 291102 02/10/16 15 34-35 ALM 291103 02/10/16 15 34-35 ALM 291103 02/10/16 15 34-35 ALM 291103 <td< td=""><td>ACK ABI SIX ACK SELECTED RE DESCRIPTION RE CODERCENT MATERIALIS REFERENCES DOLANDO CLORO PH AGUA SERVICIÓN A PH AGUA SERVICIÓN A REFERENCES PH AGUA SERVICIÓN A PH AGUA SERVICIÓN A PH AGUA RESCARRONATIÓN A PH AGUA RESCARRONATIÓN A</td><td>UNCE UNIT 8 SORT UNIT 8 OFFEND PAL A OFFEND 2 OFFEND 2 OFFEND 2 OFFEND 2 OFFEND 2 OFFEND 2 OFFEND 3 OFFEND 3 OFFEND</td><td>UNIT C Synth UNIT D Synth Synth Sinth Sinth Sinth Sinth Sinth Sinth Sinth Sinth Sinth <t< td=""><td>Alle Con MS 10.04/45 02/12/16</td><td>STATUS I 07/07/61534412 07/07/61534412 07/07/61534410 07/07/61534410 07/07/61534400 07/07/61534400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07</td><td>EVENT S RUM RUM RUM RUM RUM RUM RUM RUM RUM RUM</td><td>Stummar 20107 470500002 1420103 1207013 1207013 1207013 1207013 1207013 1207013 1207013 1207013 1207013 1207014 1207013 1207013 1207013 1207013 1207013 1207013 1207013 1207013 1207013 1207013 1207013 1207013 1207013 1207013 1207013 1207013 1207013 1207013 1207013 1207013 1207014 1207015 1207016 1207017 1207018 1207017 1207018 1207018 1207018 1207018 1207018 1207018 <tr t=""></tr></td><td>ACK AB COS SELECTED COS COD TO: - MATERIA I COD DO TO: - MATERIA I DEVISIONE' SCODA DULLIDA DEVISIONE' SCODA DULLIDA CON DO TO: - MATERIA I DEVISIONE' SCODA DULLIDA DIN ADACIÓN DE SCODA DULLIDA CIN PARA COSPOSICIONA ALGUA SERVICO P/ CEMAP SIGNED SUN DE SCONA MAGUA CARRÍFICADA THI AGUA SERVICO P/ CEMAP SIGNED SEM ESCONA PH AGUA SERVICO P/ CEMAP SIGNED SEM ESCONA PH AGUA CARRICO P/ CEMAP PH AGUA CARRICO P/ CEMAP PH AGUA CARRICO P/ CEMAP PH AGUA CARRICO P/ CARRIA PH AGUA CARRICO P/ CEMAP PH AGUA CARRICO P/ CEMAP PH AGUA CARRICO P/ CEMAP PH AGUA CARRICO P/ CARRIA PH AGUA CARRICON O PH AGUA CARRICON O PH AGUA CARRICON O PH AGUA CARRICON O</td><td>SILENCE RE-SORT RE-SORT VIC OFFINIM VIC OFFINIM OFFINIM OFFINIM PVIC PVIC PVIC</td><td>UNIT 8 UNIT 8 FRI 952 953 5 493 5 493 5</td><td>UNIT C UNIT D UNITS STATE P51 DEGC AMPS P51 STATE GPH STATE GPH STATE GPH STATE GPM MMHG FT3/S MKS P51 STATE FT3/S STATE DEGC DEGC P31 DEGC STATE STATE</td><td>SynA16 Co Syntem Ex Color Source Color <t< td=""><td>on MS</td></t<></td></t<></td></td<>	ACK ABI SIX ACK SELECTED RE DESCRIPTION RE CODERCENT MATERIALIS REFERENCES DOLANDO CLORO PH AGUA SERVICIÓN A PH AGUA SERVICIÓN A REFERENCES PH AGUA SERVICIÓN A PH AGUA SERVICIÓN A PH AGUA RESCARRONATIÓN A PH AGUA RESCARRONATIÓN A	UNCE UNIT 8 SORT UNIT 8 OFFEND PAL A OFFEND 2 OFFEND 2 OFFEND 2 OFFEND 2 OFFEND 2 OFFEND 2 OFFEND 3 OFFEND	UNIT C Synth UNIT D Synth Synth Sinth Sinth Sinth Sinth Sinth Sinth Sinth Sinth Sinth <t< td=""><td>Alle Con MS 10.04/45 02/12/16</td><td>STATUS I 07/07/61534412 07/07/61534412 07/07/61534410 07/07/61534410 07/07/61534400 07/07/61534400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07/6153400 07/07</td><td>EVENT S RUM RUM RUM RUM RUM RUM RUM RUM RUM RUM</td><td>Stummar 20107 470500002 1420103 1207013 1207013 1207013 1207013 1207013 1207013 1207013 1207013 1207013 1207014 1207013 1207013 1207013 1207013 1207013 1207013 1207013 1207013 1207013 1207013 1207013 1207013 1207013 1207013 1207013 1207013 1207013 1207013 1207013 1207013 1207014 1207015 1207016 1207017 1207018 1207017 1207018 1207018 1207018 1207018 1207018 1207018 <tr t=""></tr></td><td>ACK AB COS SELECTED COS COD TO: - 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ALARM Summary TME VENT OUNT 2010 015 58 420 B00 20100000 202/10/15 15 34-35 ALM 1482AL06 02/10/15 15 34-35 ALM 248104 02/10/15 15 34-35 ALM 291102 02/10/16 15 35-39 ALM 291102 02/10/16 15 34-35 ALM 291103 02/10/16 15 34-35 ALM 291103 02/10/16 15 34-35 ALM 291103 <td< td=""><td>ACK ABI SIX ACK SELECTED RE DESCRIPTION RE CODERCENT MATERIALIS REFERENCES DOLANDO CLORO PH AGUA SERVICIÓN A PH AGUA SERVICIÓN A REFERENCES PH AGUA SERVICIÓN A PH AGUA SERVICIÓN A PH AGUA RESCARRONATIÓN A PH AGUA RESCARRONATIÓN A</td><td>UNCE UNIT 8 SORT UNIT 8 OFFEND PAL A OFFEND 2 OFFEND 2 OFFEND 2 OFFEND 2 OFFEND 2 OFFEND 2 OFFEND 3 OFFEND 3 OFFEND</td><td>UNIT C Synth UNIT D Synth Synth Sinth Sinth Sinth Sinth Sinth Sinth Sinth Sinth Sinth <t< td=""><td>Alle Con MS 10.04/45 02/12/16</td><td>STATUS E 07/07/63534412 07/07/63534412 07/07/6334410 07/07/6334410 07/07/6334400 07/07/6334400 07/07/6334400 07/07/6334400 07/07/6334400 07/07/6334400 07/07/6334400 07/07/6334400 07/07/6334400 07/07/6334400 07/07/6334400 07/07/6334400 07/07/633400 07/07/633400 07/07/633400 07/07/633400 07/07/633400 07/07/633400 07/07/633400 07/07/633400 07/07/633400 07/07/633400 07/07/633400 07/07/633400 07/07/633600 07/07/633600 07/07/633600 07/07/633600 07/07/633600 07/07/633600 07/07/633600 07/07/6338350 07/07/6338350 07/07/6338350 07/07/6338350 07/07/6338350 07/07/6338350 07/07/6338350 07/07/6338350 07/07/6338350 07/07/6338350 07/07/6338350 07/07/6338350 07/07/6338350 07/07/6338350 07/07/6338350 07/07/6338350 07/07/6338350 07/07/6338350 07/07/6338350 07/07/6338350 07/07/6338350 07/07/6338350 07/07/6338350 07/07/6338350 07/07/6338350 07/07/6338350 07/07/6338350 07/07/6338350 07/07/6338350 07/07/6338350 07/07/6338350 07/07/6338350 07/07/6338350 07/07/6338350 07/07/6338350 07/07/6338350 07/07/6338350 07/07/6338350 07/07/6338350 07/07/6338350 07/07/6338350 07/07/6338350 07/07/6338350 07/07/6338350 07/07/6338350 07/07/6338350 07/07/6338350 07/07/6338350 07/07/6338350 07/07/6338350 07/07/6338350 07/07/6338350 07/07/6338350 07/07/6338350 07/07/6338350 07/07/6338350 07/07/633850 07/07/633850 07/07/633850 07/07/633850 07/07/633850 07/07/633850 07/07/633850 07/07/633850 07/07/633850 07/07/633850 07/07/633850 07/07/633850 07/07/633850 07/07/633850 07/07/633850 07/07/633850 07/07/633850 07/07/633850 07/07/633850 07/07/633850 07/07/633850 07/07/633850 07/07/633850 07/07/633850 07/07/633850 07/07/633850 07/07/633850 07/07/633850 07/07/633850 07/07/633850 07/07/633850 07/07/633850 07/07/633850 07/07/633850 07/07/633850 07/07/633850 07/07/633850 07/07/633850 07/07/633850 07/07/633850 07/07/633850 07/07/633850 07/07/633850 07/07/633850 07/07/633850 07/07/633850 07/07/633850 07/07/633850 07/07/633850 00</td><td>EVENT S RUM ALM ALM ALM ALM ALM ALM ALM ALM ALM AL</td><td>Summar Pointr Arrosocoz/* 1420103 Dokolnyka Tročkotť Jackal Jos Jackal Jackalolo</td><td>ACK AII ACK AII ACK SELECTED DESCRIPTION COD TO - 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Philosophy Document

A Comprehensive Set of Guideline for

- Alarm development, implementation, maintenance, treatment and modification
- Roles & Responsibilities

Consistent and Optimum Basis for

- Alarm selection; Priority determination; Configuration

Basis for Performance Monitoring

-KPIs; Nuisance Alarm Resolution



Case Study 1: Baselining Alarm System Performance

Purpose: Benchmark the performance of TCC alarm management system

Scope:

- Analyze historical data of at least 8 weeks
- Measure performance using KPIs
- Identify frequent and/or nuisance alarms
- Identify chattering alarms
- Identify alarm floods
- Review the priority criteria
- Metrics (Targets) IEC/ISA
 - 150 alarms / day (acceptable); 300 alarms / day (maximum manageable)
 - Priority Distribution: 1 (5%); 2 (15%); 3 (80%)

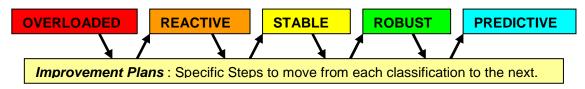


Figure 3-1 Alarm System Performance Levels



Baselining Analysis of FirstEnergy Alarm Data

Data for one Switching Desk in our Western Area

- 6 Months of Data (181 Days)
- 275,565 Alarms received during the period
- Alarms per day (Target: 150-300)
 - Average: 786. Peak: 6467. Minimum: 170
- Alarm Flooding (10 or more alarms in 10 minute period)
 - 26.3% of the time

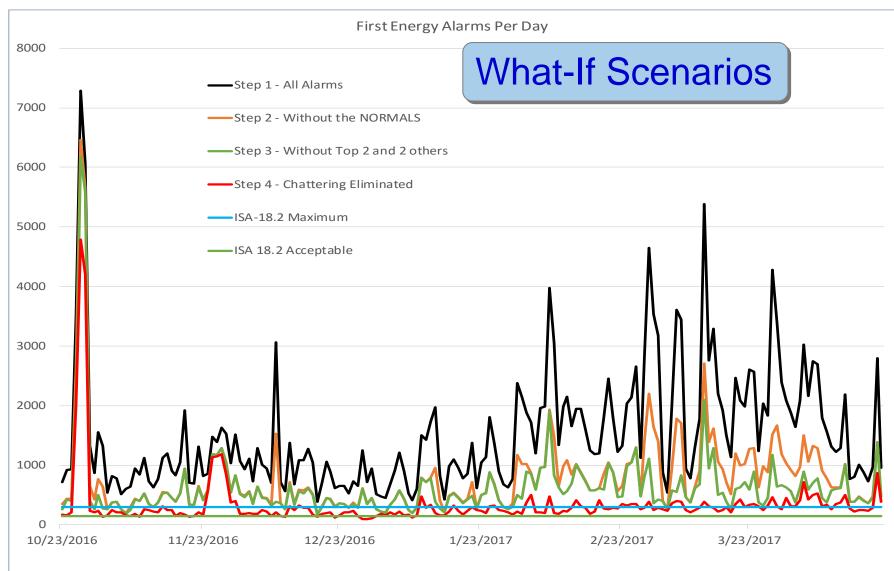
Top Ten most frequent Specific Alarms

- One device at one substation accounted for 11.4% (34,502) of all alarms
- A transformer alarm accounted for 9% (24,772) of all alarms

Most Frequent Alarm Types

- Communication Non Critical -18.8%
- All Voltage Alarms -18.1%
- Other Communication Alarms 17.1%

Baselining Analysis of FirstEnergy Alarm Data





Lessons Learned

- Large percentage of alarms created by a few points
- We are asking Operators to decide which alarms to ignore, rather than only providing actionable alarms because of volume
- Cleaning up a few items can make a huge difference in number of alarms received



Next Steps

Address Chattering Alarms

- 20% of alarms from two points

Evaluate the Need for return to normal as an alarm

- Almost 50% of alarms are return to normal

Are there better way to address certain alarms

- Voltage Monitoring
- Door Alarms

Segregate Current Alarms

- Alarms
- Situational Awareness Information
- Pass Through Equipment Information

Develop Overall Alarm Philosophy

Questions ?





Together...Shaping the Future of Electricity

