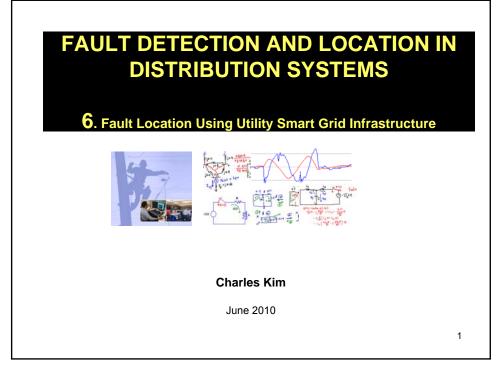
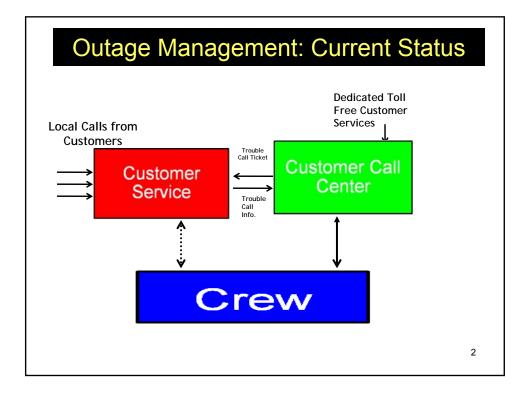
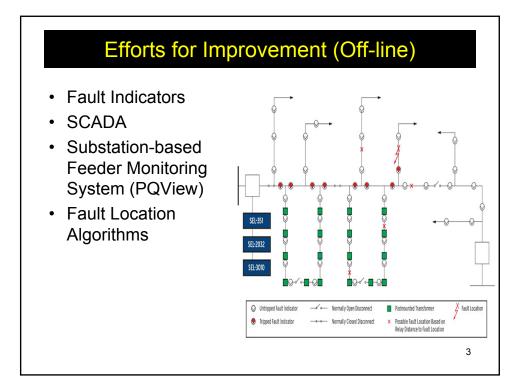
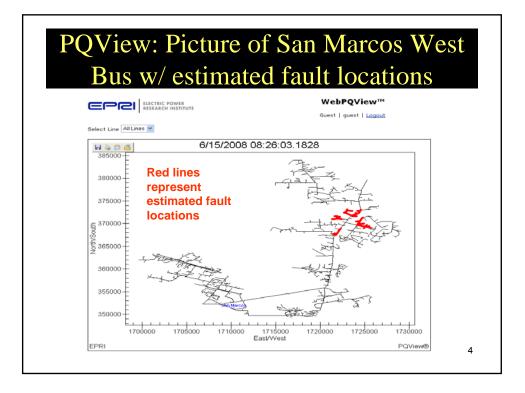
Charles Kim, "Lecture Notes on Fault Detection and Location in Distribution Systems," 2010.









	2101102	UTION SYSTEM OPER			
]	FROM 12:01 AM	TO 12:00 MIDNIGHT (OF SUNDA	Y, JUNE 15, 2008	
Type Outage	D Cir Substation	n District Start Date Time	Restr. Date T	ïme Duration #Cus	
BRAN <u>080615E</u>	5005 599 SAN MAR	COS NE 06/15/2008 0836	6 06/15/2008	1155 3 hr 19 min 115	
Response Tim	es (ETS) 0 hr 42 (F	V) N/A (Crew Callout Initiated	d) 0 hr4 min	(CrewFilled) 0 hr 39 min (Crew /	Assembled) 3 hr 26
Cause	EQUIPMENT, CABLE	UG, DAMAGED			
Area affected	DEER SPRINGS RD	AND TWIN OAKS RD N/O OLIVE,	S/O CAMINO N	IAYOR	
Individual (Dutage Developn	<u>nent</u>			
OUTAGE_ID	080615E5005	Time ETS called	0853	Time FV requested	0853
OUTAGE_TYPE	BRAN	Time ETS on scene	0935	Time FV on scene	N/A
CIRCUIT ID	599	Time crew requested	0853	First manual operation	1018
Substation	SAN MARCOS	Time crew Callout started	0857	First SCADA operation	N/A
Time occurred	0836	Time crew filled	0936	Damaged device	UG CABLE
1st cus. restored	1032	Time crew Assembled	1302	Damaged from structure	H3673672806
Time restored	1155	Cause Identified	1210	Damaged to structure	P812236
		Time crew on scene	N/A		
	EQUIPMENT, CABLE UG, DAMAGED				
Cause	EQUIPMENT, CABL				

