



bttp://d	CERTIFIC OF A CENTRE OF A CENT	Voltage Sag Events Detected by more than One Monitor			
Event	No. of monitoring site affected	Date	Time		
#1	6	22 - 1 - 2011	15:50		
#2	3	24 - 1 - 2011	11:19		
#3	2	25 - 1 - 2011	11:11	During the analysis.	
#4	2	04 - 2 - 2011	22:44		
#5	3	09 - 2 - 2011	19:41	the consultant has	
#6	2	19 - 2 - 2011	19:13	1 1 20	
#7	2	28 - 2 - 2011	12:19	discovered 29	
#8	3	06 - 3 - 2011	13:27		
#9	4	18 - 3 - 2011	16:23	voltage sag events	
#10	4	21 - 3 - 2011	05:02	that have been also	
#11	6	17 - 4 - 2011	16:20	that have been also	
#12	6	18 - 4 - 2011	10:37	datastad by other	
#13	5	18 - 4 - 2011	19:05	detected by other	
#14	2	22 - 4 - 2011	17:37	monitor locations	
#15	9	26 - 4 - 2011	17:24	monitor locations.	
#16	6	28 - 4 - 2011	18:51		
#17	2	30 - 4 - 2011	08:07		
#18	8	07 - 5 - 2011	20:00		
#19	6	12 - 5 - 2011	08:35		
#20	2	21 - 5 - 2011	10:05		
#21	6	28 - 5 - 2011	12:26		
#22	2	31 - 5 - 2011	17:15		
#23	2	01 - 6 - 2011	09:38		
#24	2	01 - 6 - 2011	10:21		
#25	9	10 - 6 - 2011	23:37		
#26	3	12 - 6 - 2011	01:13		
#27	4	15 - 6 - 2011	15:31		
#28	5	15 - 6 - 2011	17:36		
#29	9	03 - 7 - 2011	07:00		
		ITY BASELINE STL		NSULAR MALAYSIA	

UTTM Centre of Electrical Electrical Systems UNIVERSITIE FOR COMPARISON POR	!	Eve	nt Ana	alys	sis				
 http://cees.utm.my From the total external events, the consultant has identified and analysed 29 of them. These events were plotted in IEC 61000-4-34 									
Curve in order to determine the set	eve	erity of e Sites falls under class 3	ach event. Sites	Voltage (%)	Duration (sec)				
CLASS 2 CLASS 3 (include class 2 region)		1	Knowles Electronics (M) Sdn Bhd	35.57	0.5				
		2	Bang. Persekutuan Kangar	27.19	0.08				
Class Pass Fail		3	Silterra Malaysia Sdn Bhd	77.96	1.82				
1 29 0 2 9 20 3 25 4		4	Agilent Technologies Sdn Bhd	39.30	0.15				
POWER QUALITY BASELINE STUDY FOR PENINSULAR MALAYSIA									

UTTM Control Bearing Event not Meeting SEMI F47 Standard										
No	Event	Site affected	Duration (s)	Voltage (%)	Cause	No of customer affected				
1	Fri, 4 Feb 2011	Knowles Electronics (M) Sdn Bhd	0.5033162	35.57%		211				
2	Wed, 9 Feb 2011	Knowles Electronics (M) Sdn Bhd	0.1506796	40.53%		326				
		Agilent Technologies (M) Sdn Bhd	0.1502901	39.30%						
3	Mon, 21 Mar 2011	Bangunan Persekutuan Kangar	0.0791742	27.19%	Bukit Keteri – Chuping/Sadao 132 kV Line tripped	8				
4	Sat, 7 May 2011	Silterra Malaysia Sdn. Bhd.	1.8166391	77.96%	Bukit Tengah 132kv Main Bus Bar tripped	12				
5	Thu, 12 May 2011	Perwaja Steel Sdn Bhd	0.0998704	47.14%	Kampong Awah – Paka P/S 275 KV L2 tripped	45				
6	Sat, 28 May 2011	Perwaja Steel Sdn Bhd	0.0815360	42.42%	YTL Paka P/S ST 20 tripped	45				
7	Wed, 15 Jun 2011	Carsem Semiconductor Sdn Bhd	0.5204545	74.74%	Sg Siput - Lower Piah 132kV line 1 tripped	57				
		Bangunan Gunasama Persekutuan Ipoh	0.5102322	73.40%						
8	Sun, 3 Jul 2011	Kontron Design Manufacturing Services (M) Sdn Bhd	0.0715026	49.03%	Prai GIS – Bukit Tengah 132 kV L1 tripped	97				

