



Power System Operation Corporation Limited

Western regional Load Despatch Centre

FLASH REPORT

Incident: WRLDC/Sept-15/GD 1

1. Date and Time: 29/09/2015 18:46Hrs.

2. Antecedent Conditions

I. Frequency of NEW Grid/SR Grid

Event	Frequency(Hz)	Time (hh:mm)
Pre incident	49.70	18:45
Post Incident	49.91	18:48

II. Demands of DNH and WR

	DNH Demand (MW)	WR Demand (MW)	Time (hh:mm)
Pre incident	690	44537	18:45
Post Incident	386	44665	18:48

2. Reason for Tripping: At 18:46Hrs, 220kV Vapi-Kharadpara-II tripped on R-ph fault at both ends at 18:46hrs and 220kV Vapi-Kharadpara-I tripped on Y-ph O/C protection at Kharadpara only.

3. Areas Affected By Disturbance: Silvasa, Dadri, Massot and Kharadpara areas in DNH

4. Generation Loss: Nil

5. Load loss: About 380 MW in DNH.

4. Elements Affected:

Sr No.	Name of the Element	Outage Time	Restoration time
1	220kV Vapi-Kharadpara-I	18:46	19:02
2	220kV Vapi-Kharadpara-II	19:06	19:22

5. **Actions Taken:** 220kV Vapi-Kharadpara-I normalized at 19:02hrs and 220kV Vapi-kharadpara-II normalized at 19:22hrs. Load in DNH is restored by 00:20 Hrs, 30/09/2015.

6. **Current Status:** By 19:22 Hrs Both the ckts Vapi-Kharadpara-I and Vapi-Kharadpara-II normalized and load in DNH was restored by 00:20 Hrs, 30/09/2015.

DNH and Powergrid are requested to furnish the details of tripping along with relevant Relay indications, DR/EL.

WR Grid Summary Before and after the incident are given below

Before the incident:

REGIONAL DEMAND 44537										WR SUMMARY DIAGRAM WR FREQUENCY 49.707										Tue Day 29-Sep-15 18:45:00			
	GEB	MSEB	MPSEB	CSEB	GOA	DD	DNH	ESTI		SCH LOSS	823	ACT LOSS	536	REV NO	34	TTC/ATC							
SCHEDULE	3095	5329	3646	1632	349	240	687	176		CONSTITUENTS UI		FREQUENCY DETAILS											
ACTUAL RLDC	2898	5473	3550	1673	392	267	690	192		-29		SR FREQUENCY 49.711											
Deviation	-109	133	-98	39	43	27	3	13		GEN. UI		-121											
12% OF SCH	371	640	438	196	42	29	82	21		IR UI		NEW GRID FREQ 49.707											
k x Δ f	-125	-168	-68	-34	-4	-2	-6	-2		-336													
ACE	63	-302	29	-73	-47	-29	-10	-15		ISGS	STOA	PX IMP	PX EXP	TOTAL	OTHER RLDC	ACT	Dev						
CUH OD <49.7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	REGION	ER	554	-1677	534	467	-1200	-1409	-189	1014					
CUH UD >50.2	0.00	-0.06	-0.00	-0.01	-0.00	-0.00	-0.00	-0.00		W3-ER					-2000			-960					
NUCLEAR										NER	0	-143			-143								
HYDRO	132	859	758	80	0	0	0	0		SR	0	-1549	0	0	-1549	-1495	-1231	318					
THERMAL	7754	11675	3106	1938	0	0	0	0		NR	-3099	-1887	0	6	-4992	-0	-6661	-1668					
THERMAL&GAS	10578	11932	3106	1938	0	0	0	0		BPDB					-84								
TOTAL	10710	12792	3864	2031	0	0	0	0		TOTAL	-2545	-5256	534	474	-7884			-8079	-336				
DEMAND MET	13613	18254	7414	3706	392	267	690	44537															
ISGS GENERATION										STOA	PX	TOTAL	ACTUAL (GROSS)	ACTUAL (NET)	Dev	12% S							
	ON BAR DC	RSD	SCH	ACTUAL (GROSS)	ACTUAL (NET)	Dev	12% SCH																
KSTPS	1550	0	1550	1691	1592	41	186	JINDAL	450	106	596	725	611	15	72								
KSTPS-7	472	0	473	465	465	-7	57	JSPJ-DCPP	39	1	0												
VSTPS-I	997	0	997	1166	1049	54	120	ACBIL	221	59	280	253	325	45	34								
VSTPS-II	895	0	895	951	856	-37	107	LANCO	273	0	273	283	282	9	33								
VSTPS-III	950	0	950	1045	941	-8	114	BALCO	156	40	196	292	193	-4	24								
VSTPS-IV	950	0	950	1002	957	7	114	EMCO	500	0	500	519	523	19	60								
KAWAS (GAS)	150	60	150	151			18	MAHAN ESSAR	0	0	0	0	0	0	0								
KAWAS (NAPM)	0	0	0					KSK	681	0	681	753	686	5	82								
KAWAS (LIQ)	0	0	0	0	143	-7		DB POWER	364	80	444	576	539	95	53								
KAWAS (RLNG)	0	432	0					KWPL	198	339	537	0	-27	-564	64								
GANDHAR (GAS)	205	0	205	189	187	-18	25	JP NIGRI	639	0	639	673	636	-1	77								
GANDHAR (NAPM)	0	0	0					VANDANA	0	0	0	0	-0	-0	0								
GANDHAR (LNG)	0	440	0					JPL-TANNAR	416	129	544	578	565	26	65								
TAPS STAGE-I	147	0	147	147	147	-12	18	DGEN	0	0	0	0	677	4	81								
TAPS STAGE-II	965	0	965	1050	966	1	116	DGEN EBID RLNG	673	0													
KAPS	202	0	202	198	182	-23	24	GPR-RAIPUR	0	0	0	0	-11	-11	0								
SSP	74	0	74	111	111	37	9	DHAKIWA PG	0	0	0	0	2	-2	0								
SIPAT-1	1244	0	1244	1323	2274	86	149	REK	0	0	0	2	-1	-1	0								
SIPAT-2	944	0	944	972			113	SKS	0	0	0	0	1	1	0								
MUDA	850	0	850	822	819	-32	102	MCPL	0	166	166	-180	180	14	20								
NSPCL-CSEB	470	0	431	492	475	44	52	MDPOWER	545	0	545	572	524	-21	65								
RGPL	0	0	0	12	-18	-21	0	TIN ENERGY	-1	0	-1	0	0	1	-0								
RGPL (RLNG)	0	0						STRELITE	800			773											
CBPL	3760	0	3760	3757	3764	4	451	W3			8532	9247	5424										

REGIONAL DEMAND 44665										NR SUMMARY DIAGRAM NR FREQUENCY 49.918										Tue Day 29-Sep-15 18:48:00			
	GEB	MSEB	MPSEB	CSEB	GOA	DD	DNH	ESII		SCH LOSS	824	ACT LOSS	575	REV NO	34	TTC/ATC							
SCHEDULE	3096	5359	3646	1632	349	240	687	176	CONSTITUENTS UI								FREQUENCY DETAILS						
ACTUAL RLDC	3167	5061	3576	1718	393	270	386	179	-412								SR FREQUENCY 49.955						
Deviation	87	-296	-68	87	45	30	-298	2	GEN. UI								NEW GRID FREQ 49.918						
12% OF SCH	371	643	438	196	42	29	82	21	-79														
kx△f	-29	-37	-16	-8	-1	-1	-1	-0	IR UI														
ACE	-120	253	50	-96	-46	-30	297	-3	-766														
CUM OD <49.7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	REGION														
CUM UD >50.2	0.00	-0.06	-0.00	-0.01	-0.00	-0.00	-0.00	-0.00	ER	554	-1677	534	443	-1175	-1384	-171	1001						
NUCLEAR								1390	W3-ER					-1975		-938							
HYDRO	131	1123	918	80	0	0	0	2362	NER	0	-143			-143									
THERMAL	7795	11691	3118	1949	0	0	0	42493	SR	0	-1549	0	0	-1549	-1495	-1592	-1						
THERMAL&GAS	10623	11951	3118	1949	0	0	0	44591	NR	-3099	-1887	0	0	-4986	-0	-6753	-1766						
TOTAL	10754	13074	4037	2029	0	0	0	48343	BPDB					-84									
DEMAND MET	13939	18098	7613	3746	393	270	388	44665	TOTAL	-2545	-5256	534	443	-7853		-8515	-766						
ISGS GENERATION																							
	ON BAR DC	RSD	SCH	ACTUAL (GROSS)	ACTUAL (NET)	Dev	12% SCH		STOA /MTOA	PX	TOTAL	ACTUAL (GROSS)	ACTUAL (NET)	Dev	12% S								
KSTPS	1550	0	1550	1692	1590	39	186	JINDAL	450	106	596	726	620	24	72								
KSTPS-7	472	0	473	467	467	-7	57	JSEPL-DCPP	39	1	0												
VSTPS-I	997	0	997	1162	1046	48	120	ACBIL	221	59	280	254	325	45	34								
VSTPS-II	895	0	895	952	858	-38	107	LANGO	273	0	273	280	279	6	33								
VSTPS-III	950	0	950	1046	943	-9	114	BALCO	156	40	196	292	187	-8	24								
VSTPS-IV	950	0	950	1002	957	7	114	EMCO	500	0	500	523	529	23	60								
KAWAS (GAS)	150	60	150	153			18	MAHAN ESSAR	0	0	0	0	0	0	0								
KAWAS (NAPM)	0	0	0					EKS	681	0	681	753	690	9	82								
KAWAS (LIQ)	0	0	0	0	144	-6		DB POWER	364	80	444	585	548	104	53								
KAWAS (RLNG)	0	432	0					KWPL	198	339	537	0	-27	-564	64								
GANDHAR (GAS)	205	0	205	193	187	-18	25	JP NIGRI	639	0	639	673	636	-4	77								
GANDHAR (NAPM)	0	0	0					VANDANA	0	0	0	0	-1	1	0								
GANDHAR (LNG)	0	440	0					JPL-YANNAR	416	129	544	580	573	29	65								
TAPS STAGE-I	147	0	147	147	147	-12	18	DGEN	0	0	673	0	678	5	81								
TAPS STAGE-II	965	0	965	1050	966	1	116	DGEN EBID RLNG	673	0													
KAPS	202	0	202	194	178	-24	24	GMR-RAIPUR	0	0	0	0	-11	-11	0								
SSP	74	0	74	111	111	37	9	DHARIWAL PG	0	0	0	0	2	-1	0								
SIPAT-1	1244	0	1244	1323	2277	89	149	RKM	0	0	0	2	-1	-1	0								
SIPAT-2	944	0	944	976			113	SKS	0	0	0	0	1	1	0								
MOUDA	850	0	850	839	832	-18	102	MCPL	0	166	166	-179	179	13	20								
NSPCL-CSEB	470	0	431	496	478	47	52	MPPOWER	545	0	545	571	524	-21	65								
RGPEL	0	0	0	13	-18	-21	0	TRN ENERGY	-1	0	-1	0	0	1	-0								
RGPEL (RLNG)	0	0						STRELITE	800			763											
CGPL	3760	0	3760	3767	3770	10	451	W3			8532	9249	5389										

(Shift Charge Manager)