



International Civil Aviation Organization

**FOURTH REGIONAL OPMET DATA BANKS
(RODB) COORDINATION MEETING**

Chiang Mai, Thailand, 11 -12 February 2010



Agenda Item 8: Monitoring and Quality control procedures – current RODB status

OPMET PERFORMANCE INDICES COMPILED BY SINGAPORE RODB

(Prepared by the Singapore)

SUMMARY

This paper presents the full set of OPMET Performance Indices generated during a 31 days monitoring period run by the Singapore RODB during December 2009.

1. INTRODUCTION

1.1 The Seventh Meeting of the ASIA/PAC OPMET Management Task Force (OPMET/M TF7) decided the OPMET Monitoring would be conducted in November and December 2009.

2 RESULT OF THE MONITORING

2.1 The performance indices are evaluated for all aerodromes in accordance with ROBEX Tables and the compliancy in term of daily expected reported to be received was calculated based on average daily count for 10-day period, between 21 and 30 September 2009.

2.2 The compliance indices for TAF OEDF and OEDR are compiled under bulletins of FTBN31 OBBI and FTSD31 OEJD. The result showed a better receipt of the TAF OEDF and OEDR via FTSD31 OEJD. Similar result is found in the SABN31 OBBI and SASD31 OEJD too.

2.3 Refer to the compliance indices for FTTH31, 32, 33, they are computed by taking 62 expected TAF, that is, two TAF per day per aerodrome in Dec 09. Taking 4 TAF per day per aerodrome, the compliance indices will be same Bangkok and Tokyo RODB.

2.4 Missing PI s for some AU aerodromes listed in SAAU31 and SAAU32 could be due to these METAR reports are encoded in AUTO format. The monitoring software will be further improved to accept these reports.

3. ACTION BY THE MEETING

3.1 The meeting is invited to note the information in this paper.

Performance Indices for METARs (1-31 Dec 09)			
WMO Abbreviated Heading CCCC	Compliance Index	Regularity Index	Availability Index
SAAE31 VDPP	0.67	0.87	1.00
SAAE31 VDSR	0.57	0.90	1.00
SAAE31 VLVT	0.52	1.00	1.00
SAAE31 VTBD	1.00	0.94	1.00
SAAE31 VTBS	1.00	0.90	1.00
SAAE31 VTBU	0.94	0.90	1.00
SAAE31 VTCC	1.00	1.00	1.00
SAAE31 VTSP	0.95	0.87	1.00
SAAE31 VTSS	1.00	0.81	1.00
SAAE31 VVDN	0.95	0.81	1.00
SAAE31 VVNB	1.00	0.90	1.00
SAAE31 VVTS	1.00	0.77	1.00
SAAE31 VYMD	0.14	0.97	0.97
SAAE31 VYYY	0.41	0.90	1.00
SAAU31 YBAS	1.00	0.90	1.00
SAAU31 YBBN	1.00	0.90	1.00
SAAU31 YBCS	1.00	0.94	1.00
SAAU31 YBTL	1.00	1.00	1.00
SAAU31 YMML	1.00	0.87	1.00
SAAU31 YPAD	1.00	1.00	1.00
SAAU31 YPCC	1.00	0.77	1.00
SAAU31 YPDN	1.00	0.81	1.00
SAAU31 YPKU	0.87	0.71	0.94
SAAU31 YPLM	1.00	1.00	1.00
SAAU31 YPPH	1.00	0.99	1.00
SAAU31 YPTN	0.99	0.55	0.84
SAAU31 YPXM	0.94	1.00	1.00
SAAU31 YSCB	1.00	0.84	1.00
SAAU31 YSSY	1.00	0.87	1.00
SAAU32 YBRK	0.98	1.00	1.00
SAAU32 YBRM	0.97	0.81	1.00
SAAU32 YCIN	0.96	0.90	1.00
SAAU32 YFRT	0.50	0.94	1.00
SAAU32 YMAV	0.96	1.00	1.00
SAAU32 YMHB	0.97	1.00	1.00
SAAU32 YMLT	0.97	1.00	1.00
SAAU32 YPEA	0.49	1.00	1.00
SAAU32 YPGV	1.00	1.00	1.00
SAAU32 YPKG	1.00	1.00	1.00
SAAU32 YPPD	1.00	1.00	1.00
SAAU32 YSDU	1.00	1.00	1.00
SAAU32 YSNF	1.00	1.00	1.00
SAAU32 YSRI	0.96	1.00	1.00
SAAU32 YWLM	0.97	1.00	1.00
SABN31 OBBI	1.00	1.00	1.00

SABN31 OEDF	0.31	0.94	1.00
SABN31 OEDR	0.38	0.94	1.00
SABN31 OKBK	0.97	0.90	1.00
SABN31 OTBD	0.97	0.90	1.00
SABN32 OMAA	1.00	1.00	1.00
SABN32 OMAL	0.97	0.84	1.00
SABN32 OMDB	1.00	0.94	1.00
SABN32 OMFJ	0.96	0.94	1.00
SABN32 OMRK	0.96	0.94	1.00
SABN32 OMSJ	1.00	0.94	1.00
SABN32 OOMS	1.00	1.00	1.00
SABN32 OOSA	0.96	0.94	1.00
SACI31 ZBAA	1.00	1.00	1.00
SACI31 ZBSJ	0.49	1.00	1.00
SACI31 ZBTJ	1.00	1.00	1.00
SACI31 ZBYN	1.00	1.00	1.00
SACI31 ZGGG	1.00	1.00	1.00
SACI31 ZSHC	1.00	1.00	1.00
SACI31 ZSPD	1.00	1.00	1.00
SACI31 ZSSS	1.00	1.00	1.00
SACI31 ZWSH	0.37	1.00	1.00
SACI31 ZWWW	1.00	1.00	1.00
SACI31 ZYTL	1.00	1.00	1.00
SACI31 ZYTX	1.00	1.00	1.00
SACI32 ZGKL	1.00	1.00	1.00
SACI32 ZGNN	1.00	1.00	1.00
SACI32 ZGOW	1.00	1.00	1.00
SACI32 ZGSZ	1.00	1.00	1.00
SACI32 ZLXY	1.00	1.00	1.00
SACI32 ZMUB	1.00	1.00	1.00
SACI32 ZPPP	1.00	1.00	1.00
SACI32 ZSAM	1.00	1.00	1.00
SACI32 ZSFZ	1.00	1.00	1.00
SACI32 ZSNB	1.00	1.00	1.00
SACI32 ZSQD	1.00	1.00	1.00
SACI32 ZUUU	1.00	1.00	1.00
SACI41 ZBHH	1.00	1.00	1.00
SACI41 ZGHA	1.00	1.00	1.00
SACI41 ZHCC	1.00	1.00	1.00
SACI41 ZHHH	1.00	1.00	1.00
SACI41 ZJHK	1.00	1.00	1.00
SACI41 ZJSY	1.00	1.00	1.00
SACI41 ZLLL	1.00	1.00	1.00
SACI41 ZSNJ	1.00	1.00	1.00
SACI41 ZSOF	1.00	1.00	1.00
SACI41 ZUCK	1.00	1.00	1.00
SACI41 ZYCC	1.00	1.00	1.00
SACI41 ZYHB	1.00	1.00	1.00
SAHK31 RCKH	1.00	1.00	1.00
SAHK31 RCSS	0.86	1.00	1.00
SAHK31 RCTP	1.00	1.00	1.00
SAHK31 RPLB	0.86	1.00	1.00

SAHK31 RPLI	0.85	1.00	1.00
SAHK31 RPLL	1.00	0.77	1.00
SAHK31 RPMD	0.99	0.94	1.00
SAHK31 RPMZ	0.99	0.87	1.00
SAHK31 RPVM	0.91	0.68	1.00
SAHK31 VHHH	1.00	1.00	1.00
SAHK31 VMMC	1.00	1.00	1.00
SAID31 WAAA	0.96	0.74	1.00
SAID31 WABB	0.15	0.94	1.00
SAID31 WADD	0.89	0.87	1.00
SAID31 WARR	0.68	0.84	1.00
SAID31 WIDD	0.56	0.94	1.00
SAID31 WIHH	0.00	0.03	0.03
SAID31 WIIL	0.95	1.00	1.00
SAID31 WIMM	0.92	0.77	1.00
SAID32 WADA	0.08	0.97	0.97
SAID32 WALL	0.34	0.81	1.00
SAID32 WAMM	0.00	0.00	0.00
SAID32 WAOO	0.27	0.97	0.97
SAID32 WIBB	0.17	1.00	1.00
SAID32 WIKN	0.00	0.00	0.00
SAID32 WIOO	0.46	0.81	1.00
SAID32 WIPP	0.27	0.94	1.00
SAID32 WIPT	0.45	0.84	0.94
SAID33 WABP	0.00	0.00	0.00
SAID33 WAJJ	0.00	0.00	0.00
SAID33 WAKK	0.00	0.00	0.00
SAID33 WALR	0.00	0.00	0.00
SAID33 WAPP	0.00	0.00	0.00
SAID33 WARS	0.00	0.00	0.00
SAID33 WATT	0.04	0.23	0.23
SAID33 WIAT	0.00	0.00	0.00
SAIN31 VAAH	0.98	0.77	1.00
SAIN31 VABB	0.98	0.71	1.00
SAIN31 VANP	0.89	0.90	1.00
SAIN31 VOHS	0.98	0.71	1.00
SAIN31 VOHY	0.65	0.71	1.00
SAIN31 VOMM	0.99	0.87	1.00
SAIN31 VOTR	0.61	0.77	1.00
SAIN31 VOTV	0.80	0.94	1.00
SAIN32 VIAR	0.37	1.00	1.00
SAIN32 VIBN	0.31	0.90	1.00
SAIN32 VIDP	0.84	0.68	1.00
SAIN32 VIJP	0.39	0.90	1.00
SAIN32 VILK	0.41	0.81	1.00
SAIN33 VECC	0.83	0.61	1.00
SAIN33 VEPT	0.40	0.87	1.00
SAIN33 VGEG	0.57	0.81	0.81
SAIN33 VGZR	0.74	0.81	0.81
SAIN33 VNKT	0.37	0.77	0.81
SAIR31 OIAW	0.47	0.10	0.97
SAIR31 OIFM	0.97	0.90	1.00

SAIR31 OIII	1.00	1.00	1.00
SAIR31 OIKB	1.00	0.87	1.00
SAIR31 OIKK	0.71	0.87	1.00
SAIR31 OIMM	0.97	0.84	1.00
SAIR31 OISS	0.96	0.90	1.00
SAIR31 OITT	0.95	0.90	1.00
SAIR31 OIZH	0.90	0.74	1.00
SAIR32 OAKB	0.00	0.00	0.00
SAIR32 OAKN	0.00	0.00	0.00
SAIR32 OIAA	0.84	0.97	1.00
SAIR32 OIBK	0.90	0.84	1.00
SAIR32 OICC	0.94	0.90	1.00
SAIR32 OIGG	0.66	0.84	1.00
SAIR32 OIIE	0.97	0.87	1.00
SAIR32 OITR	0.95	0.77	1.00
SAIR32 OIYY	0.95	0.81	1.00
SAJP31 RJAA	1.00	1.00	1.00
SAJP31 RJBB	1.00	1.00	1.00
SAJP31 RJGG	1.00	1.00	1.00
SAJP31 RJOO	1.00	1.00	1.00
SAJP31 RJTT	1.00	1.00	1.00
SAJP31 ROAH	1.00	1.00	1.00
SAJP32 RJCC	1.00	1.00	1.00
SAJP32 RJCH	0.97	1.00	1.00
SAJP32 RJFF	1.00	1.00	1.00
SAJP32 RJFK	1.00	1.00	1.00
SAJP32 RJFO	1.00	1.00	1.00
SAJP32 RJFT	1.00	1.00	1.00
SAJP32 RJFU	1.00	1.00	1.00
SAJP32 RJOA	1.00	1.00	1.00
SAJP32 RJOB	1.00	1.00	1.00
SAJP32 RJOT	1.00	1.00	1.00
SAJP32 RJSN	1.00	1.00	1.00
SAJP32 RJSS	1.00	1.00	1.00
SAKO31 RKJB	1.00	1.00	1.00
SAKO31 RKNY	1.00	1.00	1.00
SAKO31 RKPC	1.00	1.00	1.00
SAKO31 RKPK	1.00	1.00	1.00
SAKO31 RKSI	1.00	1.00	1.00
SAKO31 RKSS	1.00	1.00	1.00
SAKO31 RKTN	1.00	1.00	1.00
SAKO31 RKTU	1.00	1.00	1.00
SAME31 OJAI	0.93	1.00	1.00
SAME31 OJAM	0.97	0.90	1.00
SAME31 OJAQ	0.76	0.90	1.00
SAME31 OLBA	1.00	0.90	1.00
SAME31 OSAP	0.98	1.00	1.00
SAME31 OSDI	0.98	1.00	1.00
SAME31 OSLK	0.97	0.81	1.00
SAMS31 WBGG	1.00	0.81	1.00
SAMS31 WBKK	1.00	0.81	1.00
SAMS31 WBSB	1.00	1.00	1.00

SAMS31 WMKK	1.00	1.00	1.00
SAMS31 WMKP	1.00	1.00	1.00
SAMS31 WSSS	1.00	1.00	1.00
SAMS38 WBGB	1.00	1.00	1.00
SAMS38 WBGR	1.00	1.00	1.00
SAMS38 WBGS	1.00	1.00	1.00
SAMS38 WBKL	1.00	1.00	1.00
SAMS38 WBKS	1.00	1.00	1.00
SAMS38 WBKW	1.00	1.00	1.00
SAMS38 WMKD	1.00	1.00	1.00
SAMS38 WMKL	1.00	1.00	1.00
SAMS38 WMKM	1.00	1.00	1.00
SANG31 AGGH	0.61	0.74	0.97
SANG31 AYGN	0.04	0.61	0.61
SANG31 AYMH	0.06	0.61	0.61
SANG31 AYMO	0.45	0.13	1.00
SANG31 AYNZ	0.01	0.13	0.13
SANG31 AYPY	0.48	0.87	0.94
SANG31 AYVN	0.05	0.71	0.71
SANG31 AYWK	0.06	0.55	0.55
SANZ31 NZAA	1.00	1.00	1.00
SANZ31 NZCH	1.00	1.00	1.00
SANZ31 NZWN	1.00	1.00	1.00
SAPK31 OPGD	0.00	0.00	0.00
SAPK31 OPKC	0.86	0.84	1.00
SAPK31 OPLA	0.90	0.81	1.00
SAPK31 OPNH	0.24	0.42	1.00
SAPK31 OPPS	0.32	0.90	1.00
SAPK31 OPRN	0.33	0.81	1.00
SASB31 VCBI	0.78	0.74	1.00
SASB31 VRMM	0.95	0.97	1.00
SASD31 OEDF	0.67	0.55	1.00
SASD31 OEDR	0.60	0.48	1.00
SASD31 OEJN	1.00	0.84	1.00
SASD31 OEMA	1.00	0.68	1.00
SASD31 OERK	1.00	0.81	1.00
SASD31 OERY	1.00	0.94	1.00
SASD31 OYSN	1.00	1.00	1.00
SATH31 VTCH	0.82	0.74	1.00
SATH31 VTCL	0.03	0.13	0.13
SATH31 VTCN	0.41	1.00	1.00
SATH31 VTCP	0.45	0.97	0.97
SATH31 VTCT	0.88	0.84	1.00
SATH31 VTPB	0.04	0.06	0.06
SATH31 VTPH	0.95	0.84	1.00
SATH31 VTPM	0.21	0.48	0.48
SATH31 VTPO	0.60	0.74	1.00
SATH31 VTPP	0.88	0.94	1.00
SATH32 VTSB	0.91	0.90	1.00
SATH32 VTSC	0.59	0.90	1.00
SATH32 VTSF	0.67	0.97	1.00
SATH32 VTSG	0.68	0.90	1.00

SATH32 VTSH	0.95	1.00	1.00
SATH32 VTSK	0.00	0.00	0.00
SATH32 VTSM	1.00	1.00	1.00
SATH32 VTSR	0.02	0.16	0.16
SATH32 VTST	0.53	1.00	1.00
SATH33 VTBO	0.93	0.97	1.00
SATH33 VTUD	0.95	0.90	1.00
SATH33 VTUI	0.17	0.55	0.55
SATH33 VTUK	0.91	1.00	1.00
SATH33 VTUL	0.03	0.13	0.13
SATH33 VTUO	0.13	0.52	0.52
SATH33 VTUQ	0.03	0.16	0.16
SATH33 VTUV	0.07	0.29	0.29
SATH33 VTUW	0.46	0.84	0.87

Attachment 2

Performance Indices for TAFs (1-31 Dec 09)			
WMO Abbreviated Heading CCCC	Compliance Index	Regularity Index	Availability Index
FTAE31 VGZR	0.92	0.97	1.00
FTAE31 VLVT	0.70	0.97	1.00
FTAE31 VTBD	1.00	1.00	1.00
FTAE31 VTBS	1.00	1.00	1.00
FTAE31 VTBU	0.94	1.00	1.00
FTAE31 VTCC	0.98	1.00	1.00
FTAE31 VTSP	0.99	1.00	1.00
FTAE31 VTSS	0.96	1.00	1.00
FTAE32 VDPP	0.84	0.74	1.00
FTAE32 VDSR	0.83	0.74	1.00
FTAE32 VVDN	1.00	1.00	1.00
FTAE32 VVNB	1.00	1.00	1.00
FTAE32 VVTS	0.94	1.00	1.00
FTAE32 VYMD	0.39	0.68	0.68

FTAE32 VYYY	0.91	0.97	1.00
FTAE33 VTCT	0.98	0.94	1.00
FTAE33 VTSG	0.95	0.81	1.00
FTAE33 VTUU	0.98	0.94	1.00
FTAU31 YBBN	1.00	1.00	1.00
FTAU31 YMML	1.00	1.00	1.00
FTAU31 YPAD	1.00	1.00	1.00
FTAU31 YPDN	1.00	1.00	1.00
FTAU31 YPPH	1.00	1.00	1.00
FTAU31 YSSY	1.00	1.00	1.00
FTAU32 YBAS	1.00	1.00	1.00
FTAU32 YBCG	1.00	1.00	1.00
FTAU32 YBCS	1.00	1.00	1.00
FTAU32 YBTL	1.00	1.00	1.00
FTAU32 YGEL	1.00	0.97	1.00
FTAU32 YMAV	1.00	1.00	1.00
FTAU32 YPKG	1.00	1.00	1.00
FTAU32 YPLM	1.00	1.00	1.00
FTAU32 YPTN	1.00	1.00	1.00
FTAU32 YSCB	0.94	1.00	1.00
FTAU33 YBRK	0.99	1.00	1.00
FTAU33 YBRM	0.98	1.00	1.00
FTAU33 YCFS	0.94	1.00	1.00
FTAU33 YHID	0.90	1.00	1.00
FTAU33 YMHB	1.00	1.00	1.00
FTAU33 YMLT	1.00	1.00	1.00
FTAU33 YPCC	1.00	1.00	1.00
FTAU33 YPEA	1.00	1.00	1.00
FTAU33 YPPD	1.00	1.00	1.00
FTAU33 YPWR	0.97	1.00	1.00
FTAU33 YPXM	1.00	1.00	1.00
FTAU33 YSDU	0.96	1.00	1.00
FTAU33 YSNF	0.98	1.00	1.00
FTAU33 YSRI	0.94	0.74	1.00
FTAU33 YWLM	0.90	0.99	1.00
FTAU34 YAMB	0.77	0.99	1.00
FTAU34 YBHM	0.70	0.99	1.00
FTAU34 YBMA	0.82	0.99	1.00
FTAU34 YCIN	0.98	0.99	1.00
FTAU34 YFRT	0.97	1.00	1.00
FTAU34 YPGV	0.85	0.81	1.00
FTAU34 YPKU	0.61	0.84	1.00
FTBN31 OBBI	1.00	1.00	1.00
FTBN31 OEDF	0.18	0.55	0.55
FTBN31 OEDR	0.19	0.58	0.58
FTBN31 OKBK	0.97	1.00	1.00
FTBN31 OTBD	0.98	1.00	1.00
FTBN32 OMAA	1.00	1.00	1.00
FTBN32 OMAD	1.00	1.00	1.00
FTBN32 OMAL	0.96	1.00	1.00
FTBN32 OMDB	0.96	1.00	1.00
FTBN32 OMFJ	0.94	1.00	1.00

FTBN32 OMRK	0.97	1.00	1.00
FTBN32 OMSJ	0.95	1.00	1.00
FTBN32 OOMS	0.92	0.71	1.00
FTBN32 OOSA	0.92	0.97	1.00
FTCI31 ZBAA	1.00	1.00	1.00
FTCI31 ZBSJ	1.00	1.00	1.00
FTCI31 ZBTJ	1.00	1.00	1.00
FTCI31 ZBYN	1.00	1.00	1.00
FTCI31 ZGGG	1.00	1.00	1.00
FTCI31 ZSHC	1.00	1.00	1.00
FTCI31 ZSPD	1.00	1.00	1.00
FTCI31 ZSSS	1.00	1.00	1.00
FTCI31 ZWSH	1.00	1.00	1.00
FTCI31 ZWWW	1.00	1.00	1.00
FTCI31 ZYTL	1.00	1.00	1.00
FTCI31 ZYTX	1.00	1.00	1.00
FTCI32 ZGKL	1.00	1.00	1.00
FTCI32 ZGNN	1.00	1.00	1.00
FTCI32 ZGOW	1.00	1.00	1.00
FTCI32 ZGSZ	1.00	1.00	1.00
FTCI32 ZLXY	1.00	1.00	1.00
FTCI32 ZMUB	1.00	1.00	1.00
FTCI32 ZPPP	1.00	1.00	1.00
FTCI32 ZSAM	1.00	1.00	1.00
FTCI32 ZSFZ	1.00	1.00	1.00
FTCI32 ZSNB	1.00	1.00	1.00
FTCI32 ZSQD	1.00	1.00	1.00
FTCI32 ZUUU	1.00	1.00	1.00
FTCI41 ZBHH	1.00	1.00	1.00
FTCI41 ZGHA	1.00	1.00	1.00
FTCI41 ZHCC	1.00	1.00	1.00
FTCI41 ZHHH	1.00	1.00	1.00
FTCI41 ZJHK	1.00	1.00	1.00
FTCI41 ZJSY	1.00	1.00	1.00
FTCI41 ZLLL	1.00	1.00	1.00
FTCI41 ZSNJ	1.00	1.00	1.00
FTCI41 ZSOF	1.00	1.00	1.00
FTCI41 ZUCK	1.00	0.97	1.00
FTCI41 ZYCC	1.00	0.94	1.00
FTCI41 ZYHB	1.00	0.97	1.00
FTHK31 RCKH	1.00	1.00	1.00
FTHK31 RCSS	1.00	1.00	1.00
FTHK31 RCTP	1.00	1.00	1.00
FTHK31 RPLB	1.00	1.00	1.00
FTHK31 RPLI	1.00	1.00	1.00
FTHK31 RPLL	1.00	1.00	1.00
FTHK31 RPMD	1.00	1.00	1.00
FTHK31 RPMZ	1.00	1.00	1.00
FTHK31 RPVM	1.00	1.00	1.00
FTHK31 VHHH	1.00	1.00	1.00
FTHK31 VMMC	1.00	1.00	1.00
FTIN31 VAAH	1.00	1.00	1.00

FTIN31 VABB	1.00	1.00	1.00
FTIN31 VANP	1.00	0.90	1.00
FTIN31 VECC	1.00	0.90	1.00
FTIN31 VEPT	0.56	1.00	1.00
FTIN31 VIAR	1.00	1.00	1.00
FTIN31 VIBN	1.00	1.00	1.00
FTIN31 VIDP	1.00	1.00	1.00
FTIN31 VIJP	1.00	1.00	1.00
FTIN31 VILK	1.00	0.94	1.00
FTIN32 VCBI	0.97	0.94	1.00
FTIN32 VNKT	0.18	0.61	0.61
FTIN32 VOCL	1.00	0.97	1.00
FTIN32 VOHS	0.99	0.97	1.00
FTIN32 VOHY	1.00	1.00	1.00
FTIN32 VOMM	0.20	0.61	0.61
FTIN32 VOTR	1.00	1.00	1.00
FTIN32 VOTV	0.74	0.97	1.00
FTIN32 VRMM	0.99	0.97	1.00
FTIR31 OIAW	0.00	0.00	0.00
FTIR31 OIFM	0.98	0.94	1.00
FTIR31 OIII	0.98	0.97	1.00
FTIR31 OIKB	0.98	1.00	1.00
FTIR31 OIKK	0.98	0.94	1.00
FTIR31 OIMM	0.98	0.94	1.00
FTIR31 OISS	0.98	0.94	1.00
FTIR31 OITT	0.98	0.94	1.00
FTIR31 OIZH	0.94	0.90	0.97
FTJP31 RJAA	0.95	0.94	0.97
FTJP31 RJBB	1.00	1.00	1.00
FTJP31 RJCH	1.00	1.00	1.00
FTJP31 RJOO	1.00	1.00	1.00
FTJP31 RJSS	1.00	1.00	1.00
FTJP31 RJTT	1.00	1.00	1.00
FTJP31 ROAH	1.00	1.00	1.00
FTJP32 RJCC	1.00	1.00	1.00
FTJP32 RJFF	1.00	1.00	1.00
FTJP32 RJFK	1.00	1.00	1.00
FTJP32 RJFO	1.00	1.00	1.00
FTJP32 RJFT	1.00	1.00	1.00
FTJP32 RJFU	1.00	1.00	1.00
FTJP32 RJGG	1.00	1.00	1.00
FTJP32 RJNK	1.00	1.00	1.00
FTJP32 RJNT	1.00	1.00	1.00
FTJP32 RJOA	1.00	1.00	1.00
FTJP32 RJOB	1.00	1.00	1.00
FTJP32 RJOT	1.00	1.00	1.00
FTJP32 RJSN	1.00	1.00	1.00
FTKO31 RKJB	1.00	1.00	1.00
FTKO31 RKNY	1.00	1.00	1.00
FTKO31 RKPC	1.00	1.00	1.00
FTKO31 RKPJ	1.00	1.00	1.00

FTKO31 RKSI	1.00	1.00	1.00
FTKO31 RKSS	1.00	1.00	1.00
FTKO31 RKTN	1.00	1.00	1.00
FTKO31 RKTU	1.00	1.00	1.00
FTME31 OLBA	0.98	0.90	1.00
FTME31 OSAP	0.94	0.74	1.00
FTME31 OSDI	0.91	0.68	1.00
FTME31 OSLK	0.93	0.71	1.00
FTNG31 AGGH	0.63	1.00	1.00
FTNG31 ANYN	0.70	0.90	1.00
FTNG31 AYPY	0.80	0.94	1.00
FTNZ31 NZAA	1.00	1.00	1.00
FTNZ31 NZCH	1.00	1.00	1.00
FTNZ31 NZWN	1.00	1.00	1.00
FTPK31 OPGD	0.77	0.71	0.97
FTPK31 OPKC	0.89	0.87	1.00
FTPK31 OPLA	0.88	0.90	1.00
FTPK31 OPNH	0.88	0.87	1.00
FTPK31 OPPS	0.01	0.03	0.03
FTPK31 OPRN	0.76	0.94	1.00
FTSD31 OEDF	0.82	0.39	1.00
FTSD31 OEDR	0.81	0.39	1.00
FTSD31 OEJN	1.00	1.00	1.00
FTSD31 OEMA	1.00	1.00	1.00
FTSD31 OERK	1.00	1.00	1.00
FTSD31 OYSN	0.96	1.00	1.00
F TSR31 WAAA	0.92	1.00	1.00
F TSR31 WABB	0.63	1.00	1.00
F TSR31 WADD	0.91	1.00	1.00
F TSR31 WARR	0.94	0.81	1.00
F TSR31 WIHH	0.65	1.00	0.97
F TSR31 WIII	0.98	0.94	1.00
F TSR31 WIMM	0.92	0.94	1.00
F TSR31 WSAP	1.00	1.00	1.00
F TSR31 WSSL	1.00	1.00	1.00
F TSR31 WSSS	1.00	1.00	1.00
F TSR32 WMKJ	1.00	1.00	1.00
F TSR32 WMKK	1.00	1.00	1.00
F TSR32 WMKL	1.00	1.00	1.00
F TSR32 WMKM	1.00	1.00	1.00
F TSR32 WMKP	1.00	1.00	1.00
F TSR32 WMSA	1.00	1.00	1.00
F TSR33 WBGB	1.00	1.00	1.00
F TSR33 WBGG	1.00	1.00	1.00
F TSR33 WBGR	1.00	1.00	1.00
F TSR33 WBGS	1.00	1.00	1.00
F TSR33 WBKK	1.00	1.00	1.00
F TSR33 WBKL	1.00	1.00	1.00
F TSR33 WBKS	1.00	1.00	1.00
F TSR33 WBKW	1.00	1.00	1.00
F TSR33 WBSB	1.00	1.00	1.00
FTTH31 VTCH	0.94	0.87	1.00

FTTH31 VTCL	0.94	0.87	1.00
FTTH31 VTCN	0.94	0.87	1.00
FTTH31 VTCP	0.94	0.87	1.00
FTTH31 VTPB	0.94	0.87	1.00
FTTH31 VTPM	0.94	0.87	1.00
FTTH31 VTPO	0.94	0.87	1.00
FTTH31 VTPP	0.94	0.87	1.00
FTTH31 VTPT	0.94	0.87	1.00
FTTH32 VTSB	1.00	0.94	1.00
FTTH32 VTSC	0.97	0.94	1.00
FTTH32 VTSE	0.84	0.90	0.90
FTTH32 VTSF	0.97	0.94	1.00
FTTH32 VTSH	0.94	0.87	1.00
FTTH32 VTSK	0.97	0.94	1.00
FTTH32 VTSM	0.97	0.94	1.00
FTTH32 VTSR	0.97	0.94	1.00
FTTH32 VTST	0.95	0.94	0.97
FTTH33 VTUD	0.97	0.94	1.00
FTTH33 VTUI	0.95	0.90	1.00
FTTH33 VTUJ	0.97	0.94	1.00
FTTH33 VTUK	0.97	0.94	1.00
FTTH33 VTUL	0.97	0.94	1.00
FTTH33 VTUO	0.97	0.94	1.00
FTTH33 VTUQ	0.97	0.94	1.00
FTTH33 VTUV	0.97	0.94	1.00
FTTH33 VTUW	0.97	0.94	1.00
FTTM31 WPDL	0.79	1.00	1.00