

Network Outcomes Contract Governance & Management Group Clarification	
Reference Number:	NOCC No. 28
Subject Title:	Weather Stations MetService
Issue Date:	21 June 2018
Clarification Purpose	Clarification is provided to ensure the NOC is being interpreted consistently. The clarification does not remove or supersede the Network Outcomes Contract documentation.

SUBJECT

MetService Weather Stations

BACKGROUND

The MetService has raised the issue that some of the weather station in road sensors are being damaged by maintenance activities.

The MetService are also switching to a different in-road sensor that is manufactured by Lufft. The benefit of the Lufft sensors is that it is modular and the core sensor can be extracted prior to road maintenance occurring (assuming prior notice is received). Having a removable sensor will reduce the repair cost to approximately half of the Viasala sensors as the buried data and power cables to the road weather station also need to be replaced if damaged.

RESPONSE

The Agency will notify the NOC contractor re this issue and request that they:

1. Review their MMP Maintenance Intervention Strategy to ensure that any planned renewal or maintenance work that may affect the in-road sensor gets notified to MetService. Note: the basic WXT weather stations don't always have an associated in-road sensor installed.
2. Be reminded that a schedule of any network Weather Stations is found in table 5.3.2 of the Maintenance Specification and advise that this register (and the RAMM asset register) needs maintained to add in any new weather station (or delete as applicable).
3. That we need to add these weather station assets to RAMM, if they aren't already loaded as an asset owned by others
4. If the sensors were not in RAMM or in the contract document, but they were present on the network prior to tender closing then risk is included; if added to the network after tender closes the risk to update RAMM is excluded.

5. That the weather stations often have a road surface temperature sensor built into the pavement and that this asset needs maintained in conjunction with MetService and that any damage to this sensor during pavement or surfacing maintenance works would be a cost to the contract (re. CRP 29).
6. In the variation benchmarking (i.e. who pays) for some contract tenders, the weather stations were included as an item as follows:

NO SITUATION / CIRCUMSTANCES		VARIATION?		
		Yes	No	Depends
4	Met Service have a number of temperature sensors in the road, work is to be undertaken at the site.			
	The cost to remove and reinstate the sensors is:			x
	Comments: If the works are to be undertaken in accordance with a planned event (such as a rehab or reseal) then these works are not included in the unit rate and are a variation. However, if the works were associated with maintenance activities then the Contractor must take due care of all assets in the road reserve. Reference risk item 29.			

7. The MetService will remove the sensors on request and they may wish to invoice the Transport agency for the work carried out.
8. As part of Corridor Access Management requirements the Contractor is required to inspect the location for services, this includes their own work. Any location should be covered off in the renewals quality plan which is to be delivered 2 months prior to construction unless the road is getting repaired in a reactive manor.
9. 4 weeks before any pavement or resurfacing renewal work gets carried out the Network Manager or NOC supplier notifies MetService on the contact details below

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A list of weather stations at the time of this advice note is appended over.

StationNo	ICAO	StationName	EquipmentType	Latitud	Longitud	lat	lng	road_id	SH-RS-RP(m)	side	side_metres
93097	NZWWX	Waterview	WMT52	36.87202	174.70483	-36.872020	174.704830	3602	016-0008-R9/359	left	4
93106	NZHBX	Auckland Harbour Bridge	WXT520	36.8292852	174.746535	-36.829285	174.746535	1596	01N-0414-B/10013	right	1
93133	NZMBX	Mangere Bridge	WXT520	36.94053012	174.7902839	-36.940530	174.790284	291	020-0012-R1/0	right	18
93143	NZKEX	Kopu East	AWS-mSTAR-ROSA	37.14351	175.65977	-37.143510	175.659770	1404	25A-0008-B/3733	left	14
93182	NZKNX	Kaimai	AWS-mSTAR-ROSA	37.86097	175.9487	-37.860970	175.948700	1721	029-0021-B/19548	right	25
93183	NZKMX	Kaimai West	AWS-mSTAR-B	37.87041289	175.9338421	-37.870413	175.933842	1441	029-0042-B/352	left	21
93227	NZTTX	Tongariro	AWS-mSTAR-A	39.0278333	175.643	-39.027833	175.643000	1651	047-0029-B/243	right	11
93228	NZMRX	Moturoa	AWS-mSTAR-A	39.12747222	175.7916667	-39.127472	175.791667	1558	01N-0763-B/6162	right	40
93251	NZKJX	Kuratau Junction	AWS-mSTAR-ROSA	38.88125	175.6781111	-38.881250	175.678111	1482	041-0023-B/13781	left	37
93254	NZHLX	High Level Road	AWS-mSTAR-ROSA	38.80346	176.25084	-38.803460	176.250840	1381	005-0150-B/4993	left	7
93259	NZERX	Eastern Rangitaiki	AWS-MSTAR-B	38.88277778	176.3900556	-38.882778	176.390056	434	005-0169-B/601	right	22
93287	NZTFX	Traffords Hill	AWS-mSTAR-B	38.35854	177.45317	-38.358540	177.453170	1639	002-0361-B/3179	right	15
93294	NZNTX	National Park	AWS-mSTAR-ROSA	39.1771	175.40409	-39.177100	175.404090	1487	047-0000-B/140	left	6
93295	NZMGX	Mangatepopo	AWS-MSTAR-B	39.12328	175.52351	-39.123280	175.523510	1488	047-0009-B/5116	left	14
93346	NZDRT	Desert Road	AWS-mSTAR-ROSA	39.29479	175.74118	-39.294790	175.741180	1559	01N-0777-B/15756	left	7
93355	NZRTX	Raetihi	AWS-MSTAR-B	39.44947	175.29208	-39.449470	175.292080	1078	004-0148-B/2694	right	11
93365	NZSWX	South Waiouru	AWS-mSTAR-ROSA	39.48945	175.67037	-39.489450	175.670370	956	01N-0815-B/1378	right	17
93369	NZTOX	Te Haroto	AWS-mSTAR-ROSA	39.11785	176.5952	-39.117850	176.595200	436	005-0204-B/6296	left	10
93370	NZTEX	Te Pohue	AWS-MSTAR-B	39.23696	176.68685	-39.236960	176.686850	437	005-0220-B/10045	right	12
93387	NZAHX	Aqueduct Hill	WXT520	39.3715	175.71281	-39.371500	175.712810	953	01N-0794-B/8097	right	26
93388	NZWOX	Waiouru North	WXT520	39.42298	175.68674	-39.422980	175.686740	953	01N-0794-B/14338	left	2
93390	NZWRX	Wharerata	AWS-mSTAR-B	38.8805	177.864233	-38.880500	177.864233	335	002-0474-B/2135	right	16
93408	NZNOW	Newlands Offramp	AWS-iSTAR	41.23174557	174.8103507	-41.231746	174.810351	2573	01N-1066-R3/457	right	6
93415	NZHJX	Johnsonville Helston Road	AWS-iSTAR	41.22108244	174.8090214	-41.221082	174.809021	1192	01N-1060-D/4536	right	18
93466	NZAQX	Aotea Quay	WXT520	41.26145	174.790725	-41.261450	174.790725	1193	01N-1068-I/2263	left	7
93468	NZRIX	Rimutaka Pass Summit	AWS-MSTAR-B	41.11468333	175.2317667	-41.114683	175.231767	1198	002-0931-B/75	right	19
93480	NZRPX	Rimutaka Pages Point	WXT520	41.10834	175.25337	-41.108340	175.253370	477	002-0921-B/7994	right	5
93517	NZWQX	Westport NZTA	AWS-MSTAR-B	41.83317	171.56408	-41.833170	171.564080	544	006-0336-B/3879	right	14
93530	NZTAX	Takaka Hill	AWS-mSTAR-ROSA	41.02302	172.90189	-41.023020	172.901890	525	060-0042-B/12182	right	7
93537	NZKAX	Kawatiri	AWS-mSTAR-B	41.70411	172.5974	-41.704110	172.597400	3016	006-0209-B/2187	right	13
93552	NZSIX	Springs Junction	AWS-mSTAR-ROSA	42.33428	172.18213	-42.334280	172.182130	584	065-0054-B/18387	left	14
93581	NZKXX	Koromiko	AWS-mSTAR-ROSA	41.34881	173.95602	-41.348810	173.956020	3558	015-0000-B/8326	right	26
93600	NZSAX	St Arnaud	AWS-mSTAR-ROSA	41.799	172.867	-41.799000	172.867000	2648	063-0084-B/6669	right	61
93616	NZHHX	Hokitika South	AWS-MSTAR-B	42.7567	170.92267	-42.756700	170.922670	1824	006-0471-B/5341	right	8
93638	NZPTX	Porters Pass	AWS-mSTAR-A	43.33104	171.80423	-43.331040	171.804230	680	073-0068-B/5538	right	9
93651	NZLWX	Lewis Pass	AWS-mSTAR-ROSA	42.38034	172.40044	-42.380340	172.400440	617	007-0115-B/15757	right	9
93661	NZHUX	Hurunui	AWS-MSTAR-B	42.89747	172.71988	-42.897470	172.719880	611	007-0016-B/7075	left	14
93703	NZFIJ	Franz Josef AWS	AWS-mSTAR-ROSA	43.38396	170.15294	-43.383960	170.152940	563	006-0610-B/2982	left	13
93741	NZBPX	Burkes Pass	AWS-mSTAR-ROSA	44.09448	170.56154	-44.094480	170.561540	711	008-0085-B/640	right	17
93743	NZKRX	Kurow	WXT536	44.72839476	170.4760788	-44.728395	170.476079	1305	082-0053-B/16973	right	14
93745	NZTXX	Tekapo	AWS-mSTAR-ROSA	44.0402	170.38225	-44.040200	170.382250	712	008-0099-B/11187	left	16
93756	NZMVX	Methven	AWS-mSTAR-ROSA	43.60271	171.64409	-43.602710	171.644090	1304	077-0033-B/3712	left	7
93778	NZCWX	Coopstown	AWS-mSTAR-ROSA	43.75143	172.81964	-43.751430	172.819640	693	075-0052-B/2533	right	10
93798	NZLPX	Lindis Pass	AWS-IridiumLink	44.588	169.643	-44.588000	169.643000	833	008-0202-B/15158	right	28
93819	NZWXX	Waipahi	AWS-mSTAR-ROSA	46.11189	169.22654	-46.111890	169.226540	781	015-0833-B/1809	left	15
93820	NZBCX	Balclutha	AWS-mSTAR-ROSA	46.20289	169.7698	-46.202890	169.769800	775	015-0774-B/6838	left	13
93822	NZCLX	Cluden Hill Layby	AWS-MSTAR-B	44.81168	169.5006	-44.811680	169.500600	836	008-0247-B/7977	right	12
93823	NZSOX	Shotover	AWS-mSTAR-ROSA	45.0009	168.77035	-45.000900	168.770350	3599	006-0983-B/8307	left	20
93824	NZWEX	Wedderburn	AWS-mSTAR-ROSA	45.014211	169.99172	-45.014211	169.991720	872	085-0092-B/2433	right	16
93825	NZOKX	Omakau	AWS-mSTAR-ROSA	45.12183	169.52605	-45.121830	169.526050	875	085-0134-B/11577	left	14
93826	NZMLX	Millers Flat	AWS-MSTAR-B	45.65802	169.39803	-45.658020	169.398030	846	008-0381-B/2495	right	16
93836	NZWZX	Waitati	AWS-MSTAR-B	45.76337	170.55834	-45.763370	170.558340	753	015-0683-B/5693	left	11
93878	NZWLX	Wallacetown	AWS-MSTAR-B	46.33816	168.31853	-46.338160	168.318530	1674	099-0000-B/2513	left	16
93900	NZLSX	Leith Saddle	AWS-mSTAR-ROSA	45.800007	170.516384	-45.800007	170.516384	753	015-0683-B/11668	left	16

