Comment Resolution for NSSP 30-6, Intelligent Compaction in CIR

No.	Date	Para # Version	Author	Comment	Resolution
1	2-12-14	Heading 30-6.01 D02-3-14	IC Sub Task Group Meeting	Change reclamation to recycling.	Agreed, done
2	2-12-14	General D02-3-14	IC Sub Task Group Meeting	"Stiffness number" is a good QC tool but should not be part of QA	At this time ICMV is report only and a QC tool
3	2-12-14	7 D02-3-14	IC Sub Task Group Meeting	"Stiffness number" is a good mapping tool to detect abrupt changes under pavement surfaces.	Agreed, has mapping instruction included in the text
4	2-12-14	14 D02-3-14	IC Sub Task Group Meeting	Update UTM zones	Agreed, done
5	2-12-14	7 D02-3-14	IC Sub Task Group Meeting	Contractor to "map existing pavement" 10 days prior to sampling for mix design.	Agreed, changed the language
6	2-12-14	33 D02-12-14	IC Sub Task Group Meeting	"After each roller pass, use a nuclear gage to estimate the density of the material and use a GPS rover to measure the positions of at least 10 locations uniformly spaced throughout the test strip" requires too much tests. Suggest less testing. Change "pass" to "coverage"?	Test strip is limited to 500 feet. No change in the number of test location. No change "pass" to coverage.
7	2-12-14	32 D02-12-14	IC Sub Task Group Meeting	Differentiate between "CIR" test strip and "IC test strip"	Agreed, added an IC test strip section 30-6.01A(4)(d)(iii) IC Test Strip.
8	2-12-14	32 D02-12-14	IC Sub Task Group Meeting	"IC test strip" is limited to first day to 500 ft	Agreed, added to IC test strip section 30-6.01A(4)(d)(iii) IC Test Strip.
9	2-12-14	32 D02-12-14	IC Sub Task Group Meeting	Limit final ICMV measurement to a small section because of potential damage/cracking by the vibratory steel roller over the finished (pneumatic rolled) surface.	Added language to IC test strip section. Contractor to verify if cracking occurs during IC test strip. If cracking is observed due to vibration, then density is waived and contractor can decide to not use steel drum roller with vibration on.
10	2-13-14	8 D02-12-14	Veda Training	FHWA/Transtec/Industry suggested strongly that the rollers not be used to "map" existing pavements (including mill and fill operations) because they have heard from the manufacturers that the rollers will be	Per Don Mathews ' discussion with Lee Gallivan, FHWA Representative, mapping existing pavement should not be a problem for the equipment.

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				damaged due to the energy transfer back to the equipment (rebound) even at low vibratory amplitudes.	
11	2-13-14	26 D02-12-14	Veda Training	FHWA thought it needed to be described as to who was performing the JITT. Currently it looks like it is left to the contractor to perform the JITT, but there are really no other requirements/qualifications of the trainer.	Sub task group to develop the content of training. Contractor is responsible for providing the training.
12	2-13-14	General	Veda Training	FHWA has heard from roller vendors there may be delays of 4 -6 weeks in providing the equipment to contracts back in October 2013. FHWA thought if these delays still exist, it may warrant use of a delayed start.	The availability of the rollers may be an issue and will be addressed when it is an actual issue.
13	2-13-14	41 D02-12-14	Veda Training	Transtec was concerned with the third GPS option listed and felt that it would not provide the necessary accuracy	Agreed, added language "position accuracy within 2 centimeters".
14	2-12-14	General D02-3-14	Chuck Suszko	This spec will be used on pilot projects only and VECP shall not be considered.	Agreed. Added paragraph 1
15	2-12-24	Various D02-12-14	CT construction	Compliance with plain language	Updated various paragraph
16	2-12-2014	19 D02-3-14	CT construction	Need to clarify the compaction quality report for the type of compaction initial and supplemental	Updated the paragraph by adding description
17	2-12-2014	20 D02-12-14	CT construction	Need to add language requiring the location of nuclear gages be plotted on the layout	Updated the paragraph requiring the data points fo location and the results
18	2-12-2014	13 and 21 and D02-3-14	CT construction	Remove layer number , and add type of roller	Updated the Veda and data file naming
19	2-12-24	30 D02-3-14	CT construction	Establish IC test strip requirement	Update the IC test strip. Contractor to do a 500 ft length test strip for IC
20	2-12-24	36 D02-3-14	CT construction	Include pneumatic rubber tire as IC qualified roller	Updated the section and included rubber tire roller

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21	2-12-2014	45 D02-3-14	IC Sub Task Group Meeting	The requirement of para 45 is not in agreement with para 44. remove	Agreed, paragraph 45 is removed.
22	3-10-2014	6 D02-26-14	Lee Galivan FHWA	Replace "reseller" with the term post manufacture retrofit system	Agreed. Replaced "reseller" with PMRS
23	3-10-2014	19 D02-26-14	Don Matthews	Is there a limit to the number of passes that Veda can analyze? Any limit to the color presentation	Response from Dr. Chang: "There are no limits for the passes in the Veda Viewer. However, we cap it at 200 in the histogram analysis. For practical use, it'll be take some thinking to properly set the color pallet (using the Veda customize) to better reflect actual material compaction levels. I've seen genius greyscale by an IC workshop attendee that looks great"
24	3-10-2014	43 D02-26-14	Don Matthews	GPS site calibration will be needed for mapping the existing pavement. Include language to specify the requirement.	Agreed. Changed the language to "prior to mapping the existing pavement"
25	3-10-2014	37 D02-26-14	Lee Galivan FHWA	Pneumatic tire rollers are not considered intelligent compaction equipment lacking the accelerometers	Added the definition of AMG rubber tire roller and intelligent compaction roller. Updated the requirement of roller.
26	3-10-2014	40 and 42 D02-26-14	Don Matthews	Some GPS may not meet the specified accuracy, too narrow	Modified the accuracy to 0.25 ft.
27	3-10-2014	20 D02-26-14	Don Matthews	Definition of pass versus coverage not clear	Added the definition of coverage, and passes and updated IC test strip
28	5-2-14	4 3-21-14		Some maintenance projects may not have electronic files or survey control points to allow the contractor to create project layout	Added paragraph 6 to include as-built when no electronic file or project plans are available.
29	5-2-14	14 and 23 3-21-14		Error with name filing, the number of characters do not match the input	Corrected and added character spacing, or explanation.
30	5-2-14	17		The language lacks description for pneumatic tire	Added "center of the roller in front"

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		3-21-14		rollers	
31	5-2-14	28 3-21-14		CIR forman should also attend the JITT	Added CIR forman to mandatory JITT personnel
32	5-2-14	28 3-21-14		Rollers may have been retrofitted , hence technical representative must be from the IC equipment	Deleted "for rollers" from the list
33	5-2-14	37 and 38 3-21-14	Chuck Suszko	Missing temperature sensor from the CIR IC equipment	Added the need for temp. sensors.
34	5-2-14	39 3-21-14	FHWA	Other high precision positioning system may be sued in lieu of GPS,	Added paragraph 41 .