

2015 Code Rollout Meeting Q & A

	A	B	C
1	SECTION	QUESTION	SaskPower Inspections Dept. ANSWER
2	15-02-022	Are existing single or double 'weather proof when not in use' covers allowed to be replaced with same?	Yes - Like for like
3	15-02-022	Are you allowed to replace existing receptacles with regular receptacles?	Yes - Like for like
4	15-02-022	At what point do we require upgrading to GFI's in kitchens and TR receptacles?	2-022 Renovating of Existing Installations in the Saskatchewan Interpretations. Contact the Local Inspector.
5	15-02-022	Can you shorten Knob and Tube?	Yes - if you are installing a gfi for protection, shortening an existing installation in order to renovate or install new wiring. However, extensions from the knob and tube will not be permitted. Please contact your local Inspector.
6	15-02-022	If you replace a Breaker in a home do you need to replace with an Arc Fault?	No. Replace like for like.
7	15-02-022	With a service change on an existing house, will there be a requirement to install arc fault breakers on the receptacle circuits?	No - like for like
8	15-02-024	Do check meters require a neutral?	As per socket manufacturer requirement
9	15-02-200	Does a parking rail with plugs in it satisfy the rule for protection? 3'6" High parking rails?	2-200 Protection of equipment and the Saskatchewan Interpretations This rail would be considered protection.
10	15-02-200	Can you install the car plugs in a concrete pile between 2 parking stalls?	2-200 Protection of equipment and the Saskatchewan Interpretations yes - The concrete pile will need to be a minimum of 300mm dia and 750mm high and anchored in the ground to a depth of 750mm
11	15-02-200	Who's job is it to install curb stops for car plugs?	2-200 Protection of Equipment and the Saskatchewan Interpretations - contractor is responsible to ensure they are installed.
12	15-02-314	If a roof top unit is being replaced, are we requiring that a roof top receptacle be added?	No - only for a new installations at this time. Like for Like Note - a factory installed receptacle meeting the requirements of 26-704 will satisfy 2-314.

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13	15-04-008	Can NMD be installed in a conduit underground or in a wet location?	No - Table 19 conditions of use. The cable must be rated for the wet location
14	15-04-008	Can USEB or USEI cable be used for services that are not underground?	No - Table 19 conditions of use
15	15-04-008	Direct burial of bond wire between buildings, what type of insulation is required?	If the bond conductor is Copper, then the bond conductor may be bare. If the bond conductor is Aluminum, then the Insulation must be rated for direct earth burial as per table 19.
16	15-10-200	6-plex grounding - interconnection of ground plates connecting them all together when grounding each individual service?	No - If the services are all fed from the same system (transformer) then they are interconnected already. If the services are fed from different systems, then they must be interconnected at one point.
17	15-10-200	If we use the alternative grounding method, do we still have to jumper the water meter?	No - This may actually inadvertently cause a parallel neutral path.
18	15-10-204	200A meter socket has only one terminal and it is for the neutral, where do we connect the ground conductor?	The ground lug on the frame of the meter socket is physically connected through the bond screw and the ground is for reference only not fault current therefore it should be sufficient for a ground connection
19	15-10-204	If grounding at the meter, can the system ground conductor be installed in the same conduit as the USEI?	If the conduit is for Utility USEI, then check with the Utility. If the conduit is for customer owned USEI cable feeding the service then yes the ground conductor may also be installed in this conduit.
20	15-10-204	As a comparison to Alternative grounding method #2, can single meter applications be grounded at the meter as opposed to the main panel ?	Yes - grounding at the meter socket or service splitter is the preferred method
21	15-10-204	Can we ground the neutral in the large farm service center? (F-Cabinet)	Yes - The Utility will ground the neutral in the Meter socket. The contractor can also install the customer ground to the neutral when they install their customer cables and then pull a bond with all feeds beyond this point.
22	15-10-208	Alternative method for grounding #1, could there be a better explanation provided for the use of two grounds for two buildings.	Yes - the second building grounding electrode is connected to the panel enclosure <u>ONLY</u> to establish an equipotential plane (touch/step potential).

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23	15-10-208	Can a main panel/ disconnect be mounted to the outside of a barn wall? Tack room? Electrical room? 'Grounding of electrical supply'	Yes - you can still build a service on a barn. - If the feeder to the barn is fed from a grounded service, then a separate bonding conductor is required to be run with the feeder conductors and bonded to the panel enclosure. We recommend that the panel enclosure be grounded to create an equipotential plane. If using USEB, the concentric neutral must be insulated and isolated from both the panel enclosure and the bond conductor.
24	15-10-300	Can I use the Service EMT conduit as a bond path when grounding at the meter socket?	Yes - as long as the service raceway has a bond bushing installed on each end and a service raceway bond conductor sized in accordance with Table 41. However, if the conduit is exposed to the weather, an additional bond conductor sized to table 16A will be required as per 12-1414
25	15-10-406	How do you bond corrugated gas line?	10-406 (4) Bond to the manifold or any other section that has steel piping
26	15-10-700	Do you still have to ground to the street side of the water meter?	No - in fact when you try to ground to the water line, you may create a parallel neutral path. - You will need to bond the water line if metallic. 10-700 no longer lists the water line directly as a ground electrode. 10-200 requires that one or more grounds to be abandoned if objectional currents are set up through their use.
27	15-10-1100	NGR Transformers- XO and Bond strap? - 480V 3phase service. Teck Cable is tied in to the MCC and then bonded at the SaskPower Transformer. We have been directed by SaskPower to complete the installation this way. Does this not jumper the NGR? – So the NGR isn't functioning. Teck cable bond wire jumpers the NGR. - NGR case bond down stream of the NGR – doesn't that jumper the NGR back to the HO ground?	When the Teck Cable is tied into the MCC, it should be connected to the metal cabinet only as a bond. There is no neutral wire or grounded circuit conductor taken to the MCC as it is a 480v NGR service. At the transformer, the neutral point bond strap MUST NOT be connected to ground. The only connection to the transformer Xo is through the Neutral Ground Resistor. After the fact, bonding all of the metallic parts does not circumvent the NGR as the NGR is only in the grounded circuit conductor circuit. Without the Bond paths being interconnected, there would be no fault current path back through the NGR to control the fault current level. Note – The Ho is isolated from the system as this is on the high side and not physically connected to the low side. See 10-1100 Appendix B Figure 4

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28	15-12-510	What does the "S" stand for in cable ties?	Support
29	15-12-906	Is an Anti-Short required in dry type flex at the connector?	No - Anti-short is required in an armoured cable to protect the wires where they issue from the sheath. Dry type flex should be de-burred prior to the insertion of the conductors and the end of the raceway is then the throat of the connector. If necessary as per 12-906 a bushing may be required on the connector as this is the end of the raceway.
30	15-12-1414	Do all EMT conduits installed in concrete require a bond conductor?	No - 12-1414 Only Slabs in direct contact with the earth.
31	15-12-1414	Is a concrete slab, poured with a vapour barrier between it and the earth, considered to be in contact with the earth in accordance with 12-1414?	Yes - a concrete slab with a vapour barrier is considered to be in contact with the earth in accordance with 12-1414 and a bond conductor will be required and this will be considered a wet location and therefore the conductors shall also be rated for a wet location in accordance with 4-008 and Table 19.
32	15-12-3020	Can a dry type two screw connector be used outdoors underneath an air conditioner or Spa pak disconnect?	Tech Cable / ACWU / Flex Yes - If the cable enters the cabinet from the bottom side, this would be considered a sheltered and therefore damp location. A dry type connector would be acceptable.
33	15-16-000	Does PVC conduit containing 24 vac require a bond conductor?	As per section 16 depending on the installation and as required by section 10
34	15-18-068	Does a gas detection need to shut down or just alarm?	Rule 18-068 spells out the requirements for gas detection.
35	15-18-102	Tech cable in Hazardous locations needs a hazardous location symbol, what about old cable? Is their a time limit to use old cable?	18-102, 18-152, 18-192, 18-202, 18-252 and Appendix B Notes Effective with the adoption of the 2015 code, 'HL' designated Tech cable will be required in all hazardous locations. Non-'HL' Tech will be permitted to be used in any non-hazardous location.
36	15-18-154	don't know that I agree with the customer/contractor having to prove the .2KPA negative pressure. I think the building would have to be a vaccum as normal is 14KPA	18-154(3)(b) - reminder that this is a code requirement and either the engineer proves the negative pressure or the contractor must seal the cable.

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37	15-22-002	does the equipment room of a carwash need to be piped in PVC?	Yes - As per section 22 this area may often contain chemicals used in the process unless otherwise classified as a normal location.
38	15-26-702	"In Use Covers" only on residential?	No - Required for all receptacles exposed to weather regardless of installation type. See 26-702 Appendix B Diagram B26-1
39	15-26-710	is a receptacle permitted to be located behind a wall mounted TV that is less than 500mm to a tub?	26-710(g) No - a receptacle will not be accepted within 500mm of the edge of the tub measured horizontally and if mounted between 500mm and 1.5M it shall be protected by a class A GFI as per 26-700(11). If a TV is to be mounted above the Tub it must be behind a permanent barrier. A TV is not considered a stationary appliance designated for the location.
40	15-26-724	Arc Faults in a home with No Kitchen? Eg. hotel, colony homes, etc.	No - 26-724 refers to dwelling units not residential occupancies
41	15-26-724	Can I feed a new receptacle from an existing circuit and not install arc fault protection?	No - arc fault protection will be required
42	15-26-724	Do you need to arc fault residential lighting circuits?	No
43	15-26-724	Does a built in Vacuum require arc fault protection? Detached garage? Dishwasher? Air Exchanger? 20amp receptacles in a detached garage used for Saws, drill presses etc?	Yes - Arc Faults will be required on all Dwelling Unit receptacle circuits other than those dictated by 26-724
44	15-26-724	If I feed a new receptacle from an existing circuit what type of wiring method is required?	as per the requirements of 26-724(g)
45	15-26-724	In a dining room does each receptacle need a separate circuit?	No - only 1 dedicated circuit for all dining room receptacles 26-724 (e)

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46	15-26-724	Why do you need to run pipe, bx, etc. for the first receptacle that is Arc fault?	26-724(g)(ii) - To protect the portion of wiring which is not arc fault protected.
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47	15-68-404	Is their a "DB" rating on the pool/ hot tub disconnect alarm?	68-404 (4)(e) No - emergency shut-off shall activate an audible and visual trouble signal device that gives immediate warning upon actuation.
48	ACT	When will the 2015 CEC be in effect?	The Regulation has been sent to government for Ministers approval.
49	ACT	Why do we need to permit customer supplied material?	Electrical Inspections Act 16(1) requires permit fees to be paid as fixed by the corporation. See Fee Schedule Table 5 item 1.2 (c)(f)
50	INSP	Can Inspectors be contacted via texting?	Contact your local inspector
51	TBL	In a home, can you start the cable run with #12 awg then drop it to #14 Awg for receptacle voltage drop?	Yes - 8-102(3) & Table 68 clearly states from the supply side of consumer's service to the furthest point of Utilization. Calculated circuit voltage drop shall not exceed 7% for general use branch circuits in dwelling units.
52	TBL	What changed in table 2 in the 2015 code?	Minor changes however refer to table 39 for Residential services and be aware that this table is based on the calculated load.
53		What is the ampacity of Theft proof Ground conductors? Are they rated the same as copper or aluminum	contact each Manufacturer for their individual spec sheets. You will need to provide this to Inspections for acceptance.