

From: [Larry Teahon](#)
To: [Lancaster, Thomas](#)
Cc: [Sabrina Fox](#)
Subject: [External_Sender] RE: Draft Revision of a Marsland Expansion Areas (MEA) Open Issue discussed in the April 6th Public Meeting
Date: Monday, April 11, 2016 11:54:22 AM
Attachments: [image001.png](#)

Tom:

This is Bob Lewis's interpretation of what David Back is requesting:

Conduct a cumulative drawdown impact assessment for the Basal Chadron Sandstone aquifer at the MEA including drawdown impacts from MEA, CBO and TCEA. The assessment will use the projected consumptive use at each facility, and actual consumptive use estimates for the CBO facility prior to 2016. The assessment will be performed using a Theis analytical solution for confined aquifers and the principal of superposition for cumulative drawdown impacts. The assessment will include drawdown impacts over the period 2011 to approximately 2052, corresponding to the historical groundwater monitoring period at the MEA, facility operations, and 10 years beyond last consumptive use at MEA and TCEA to include the aquifer recovery period. Hydrographs depicting projected drawdown over time will be produced at selected locations within and around the MEA including the MEA ISR wellfields, existing MEA Basal Chadron monitoring wells (Monitor 1 thru Monitor 11), and at a 2.25 mile radius from the MEA facility. A distance drawdown graph will also be constructed for the period of highest cumulative drawdown impacts.

Regards,

Larry Teahon

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From: Lancaster, Thomas [mailto:Thomas.Lancaster@nrc.gov]
Sent: Friday, April 08, 2016 9:41 AM
To: Larry Teahon <Larry_Teahon@cameco.com>
Subject: Draft Revision of a Marsland Expansion Areas (MEA) Open Issue discussed in the April 6th

Public Meeting

Larry,

Based on the discussion of MEA open issues that occurred in the public meeting on April 6, NRC staff revised to one of the open issues. A draft of the revision is referenced below for your review.

An analysis (preferably analytical) of estimated drawdowns within the Basal Chadron Sandstone within and in the vicinity of the proposed Marsland Expansion Area based on projected consumptive use rates presented in Appendix T of the Technical Report. Results should include, at a minimum, projected drawdown versus distance estimates in the Basal Chadron Sandstone at intermittent times (including the period of highest consumptive use). Provide the executable code, data input and output files and any other information necessary for the Staff to independently verify the analysis.

Please respond via e-mail with any comments concerning the revision. Once I receive your response, NRC will place a summary of the April 6th public meeting in NRC's ADAMS and e-mail you a copy.

Regards,

Tom Lancaster

Crow Butte Resources, Masland Satellite PM



U.S. Nuclear Regulatory Commission

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"There is nothing noble in being superior to your fellow man; true nobility is being superior to your former self."
— [Ernest Hemingway](#)

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