APPENDIX B

30, 2020)	
Decrease to Evaluatoral Decrease addison	

Program	PY Recommendation Ac	tion Completion Action(s) Taken
		Nicor Gas has switched weighted savings methodology to weighted
	Guidehouse recommends that the implementer refer to the Illinois Technical Reference Manual (TRM) v7.0, Section 5.3.6 and compare and update ex ante	6/30/2020 saving approach rather than weighted baseline approach, which is calculating savings using TOS efficiency and ER efficiency separately an
EER	2019 algorithm and inputs with inputs outlined in this measure. Guidehouse recommends providing climate zone information for all measures	then weighting the savings 93%:7%.
F	2019 installed. Guidehouse recommends that the implementer add a field to the tracking data to	6/30/2020 Nicor Gas has re-assigned climate zones for PY2019 data, and reviewed PY2020 MF data, there are no missing climate zones. Additional information regarding the application type for the measure
F	indicate and confirm that the system was verified to have year round recirculation	6/30/2020 6/30/2020
ir	or heating season recirculation as applicable for space heating pipe insulation 2019 measures.	participation file, Nicor Gas has added "Calculation Method" field into PY2020 data file.
	Guidehouse recommends using the baseline boiler efficiency of 80% AFUE for	Nicor Gas has used the baseline boiler efficiency of 80% AFUE for stean boilers less than 300,000 Btu/hr in PY2020 data and will make sure to 6/30/2020 pass 79% thermal Fficiency (TF) for steam hollers greater than 300 000
F	steam boilers less than 300,000 Btu/hr and 79% thermal Efficiency (TE) for steam	P
	2019 boilers greater than 300,000 Btu/hr as per Section 4.4.10 of the TRM v7.0. Guidehouse recommends updating the ex ante net savings for the advanced	Btu/hr for future projects. 6/30/2020 Nicor Gas has updated the ex ante net savings for the advanced thermostat measure to be equal to the ex ante gross savings in the
F	2019 thermostat measure to be equal to the ex ante gross savings in the tracking For projects where more than 24 months of billing data is available, Guidehouse	thermostat measure to be equal to the ex ante gross savings in the
	recommends basing the regression analysis on the latest 24 months of usage data for the facility in order to avoid incorporating the effects of any undocumented	6/30/2020
	past action. Guidehouse also recommends basing the HDD base temperature on	Nicor Gas will incorporate the recommendations into our engineering
MF	2019 the balance temperature for the facility as indicated by the therms usage at the	review process and will utilize for future projects when appropriate. Nicor Gas is tracking savings on kit level, not by measure level. Weighti
	The evaluation team recommends that the deemed NTG ratio of 1.00 be used for tracking 2020 net savings from showerhead and faucet aerator measures. When	the savings from Kit1, Kit 2, and Kit 3, the average NTG ratio of 0.976 ha 6/30/2020 been retrospectively applied into 2019 ESK participation file, and Nicor
x	weighting the savings from Kit 1, Kit 2, and Kit 3, the average NTG ratio was 0.976 2019 in 2019.	Gas will use same NTG value of 0.976 to apply into 2020 dataset until further notice from the evaluator.
		Nicor Gas has tracked savings for Kit 1, Kit 2, and Kit 3 using measure lif
ik .	The evaluation team recommends that Nicor Gas track savings for Kit 1, Kit 2, and 2019 Kit 3 using measure life results from 2019 findings.	6/30/2020 results from 2019 findings, a weighted measure life 8.3 years for Kit 1, 8 years for Kit 2, and 8.2 years for Kit 3.
	The evaluation team recommends that installation rate research be conducted with Kit 4 participants to validate that the in-service rates (ISRs) for	
	weatherization measures in the TRM are appropriate for customers who receive two kits. Evaluation acknowledges that ISR research is planned for 2020/2021	6/30/2020 ISR research for ESK program is planned for 2020/2021 program
к	2019 program implementation and evaluation period.	implementation and evaluation period.
	Guidehouse recommends providing data regarding the conditioning state of all	Nicor Gas and Resource Innovations met with Guidehouse on 4/9/20 to review calculation variances for Duct Insulation and Sealing. Following
	duct sealing measures and using the corresponding TRFheat value for each project's conditioning state to estimate savings. If no data exists, we recommend	that call, Resource Innovations provided supplemental data through Nicor Gas and included data for these projects. The supplemental data
st cc	evaluating savings using the conservative approach of a semi-conditioned space	provides the Equipment Location which should be used to confirm the
SF-CC	2019 and a TRFheat value of 0.4 as deemed by the TRM v7.0.	6/18/2020 TRF values submitted. Nicor Gas and Resource Innovations have improved quality control
-SF-CC	Guidehouse recommends that Nicor Gas refer to equipment manufacturer and 2019 model number information when capacity is unknown.	checks in 2020 to catch input values that have been stored incorrectly, 6/18/2020 especially for furnace tune up measure.
	The evaluation team recommends that additional installation rate research be conducted with Kit 4 participants to validate that the ISRs for weatherization	
-SF-CC	conducted with Kit 4 participants to validate that the ISRs for weatherization 2019 measures in the TRM are appropriate for customers who receive two kits.	ISR research for Kits program is planned for 2020/2021 program 6/18/2020 implementation and evaluation period.
		No major adjustments or issues were identified during the evaluation in PY2019. Nicor Gas is working with implementation team continue the collaborative process built with the evaluation team over the prior
NC	Guidehouse recommends the implementation team continue the collaborative 2019 process built with the evaluation team over the prior several years.	6/30/2020 collaborative process built with the evaluation team over the prior several years in PY2020.
	Guidehouse recommends Nicor Gas work with evaluators to investigate the	Nicor Gas has worked with evaluators to investigate the tracking data
	tracking data discrepancy for CY2019 regarding the following three projects: CINC-	6/30/2020 discrepancy for CY2019 regarding the following three projects: CINC- 0969, CINC-0971, CINC-0989. Nicor Gas will engage with evaluators to
NC	2019 0969, CINC-0971, CINC-0989. The program implementer, ComEd, Nicor Gas, Peoples Gas, and North Shore Gas	make sure data alignment between utilities in PY2020. Nicor Gas is working closer (at least quarterly meeting) with ComEd,
	should work to ensure the most recent and accurate project-level data is available and provide to all relevant parties. Since both projects for which a discrepancy	Peoples Gas, and North Shore Gas to ensure the most recent and 6/30/2020 accurate project-level data is available and provide to all relevant parti
	existed were sampled as a part of our CY2019 evaluation, we can confirm the	Also Nicor Gas has added additional "As Built Therms" field in Nicor
NC	2019 correct savings are being applied. Guidehouse recommends the implementer add data fields for the new	tracking data to reflect therms with and without interactive effects.
	circumference variables in the TRM v7.0 or v8.0 and apply the updated savings 2019 algorithm for DHW hot water pipe wrap (section 5.4.1).	6/30/2020 Nicor Gas has used new DHW pipe insulation savings algorithm to calculate 2020 measure inputs based on TRM v.8.
		These projects calculated savings correctly but data in the tracking file
	Nicor Gas should verify that tracking data inputs match the values used to	6/30/2020 has manually updated 2019 dataset and will make sure to pass 2020
	2019 calculate ex ante savings and consistently apply the TRM algorithm.	dataset with correct inputs. This recommendation is for the custom project. Nicor Gas will use post
	The program should use post-installation data when available and per-day values	6/30/2020 installation data when available and per-day values instead of monthly values to account for uneven billing periods in PY2020 and further
	2019 instead of monthly values to account for uneven billing periods.	program year.
	Guidehouse agrees that the choice Nicor Gas made to assume a conservative estimate of 9,581 gallons usage input for all restaurants is reasonable. However,	Nicor Gas assigned "other" to this business because the reality of the facility was determined to be somewhere in between "fast food" and "
	when evaluation establishes or confirms the type or condition of facilities, we will apply the most representative operating condition from the TRM. In this case (PRJ-	down" restaurant and "other" was determined to be a conservative approach is such a scenario. Nicor Gas will continue to take a
ER	2115592), we confirmed that the facility is a "sit down restaurant" and calculated 2019 a gross realization rate of 150%.	conservative approach in instances where actual building type may bridge TRM building type tiers.
EN		Nicor Gas has corrected this project and will monitor future projects, w
ER	Guidehouse recommends that the program use building type "Other" for 2019 installations at building types not provided in the TRM for this measure.	6/30/2020 continue to use "Other" for installations at building types outside of those listed in aerator usage table in TRM.
ER	Guidehouse recommends that the EFLH values for furnace and boiler measures 2019 be updated to align, by building type, with the program year TRM version.	6/30/2020 Nicor Gas has updated the EFLH values for furnace and boiler measure to align, by building type, with the program year TRM version 8.
		The showerhead measures for this project were mapped to the incorre
	Guidehouse recommends that the gross unit therm savings use the site-specific GPM ("PostInstallationEfficiency" field) as provided by the model# in the tracking	measure type, which should have been 2.0 GPM rather than 1.5. Nicor Gas no longer offers 2.0 GPM showerheads through the DI offering. All
ER	2019 data.	projects going forward will reflect savings for 1.5 GPM. The program-level verified gross savings realization rate for steam trap
ER	Nicor Gas should review the ex ante calculations used for the projects listed in 2019 Table 5 2.	6/30/2020 measures is 100%. Going forward, Nicor Gas will still review the ex ante calculations used and data accuracy in PY2020.
ER		Nicor Gas does use a default boiler efficiency of 0.807 per TRM v7.0
ER	Nicor Gas should use a default boiler efficiency of 0.807 per TRM v7.0 4.4.16,	
	2019 which was used to calculate verified savings.	6/30/2020 4.4.16, which was used to calculate verified savings. Nicor Gas will che data quality to reflect all decimals in efficiency inputs going forward.
	2019 which was used to calculate verified savings.	data quality to reflect all decimals in efficiency inputs going forward. Nicor Gas uses a "LeakingandBlowThru" factor of 1 for all industrial
	Nicor Gas should ensure that all "LeakingAndBlowThru" inputs are consistent with	data quality to reflect all decimals in efficiency inputs going forward. Nicor Gas uses a "LeakingandBlowThru" factor of 1 for all industrial 6/30/2020 steam traps. This project contained a data error. Nicor Gas will ensure 6/30/2020 that all "LeakingAndBlowThru" inputs are consistent with the TRM or a
	•	data quality to reflect all decimals in efficiency inputs going forward. Nicor Gas uses a "LeakingandBlowThru" factor of 1 for all industrial 6/30/2020 Heam traps. This project contained a data error. Nicor Gas will ensure that all "LeakingAndBlowThru" inputs are consistent with the TRM or a provide source of custom inputs.
:R	Nicor Gas should ensure that all "LeakingAndBlowThru" inputs are consistent with 2019 the TRM or a provide source of custom inputs. Guidehouse recommends that Nicor Gas use the TRM methodologies and inputs	data quality to reflect all decimals in efficiency inputs going forward. Noto Cas uses a "ResingendiBowThm" factor of 1 for all industrial 6/30/2020 steam traps. This project contained a data error. Nicor Gas will ensure what all "LeakingendiBowThm" inputs are consistent with the TRM or a provide source of custom inputs. (These projects initially had errors in data. Nicor Gas has used the TRM 6/30/2020 inputs described in Figure 5 1 and Table 5 3 for
:R	Nicor Gas should ensure that all "Leaking-AndBlowThru" inputs are consistent with 2019 the TRM or a provide source of custom inputs. Guidehouse recommends that Nicor Gas use the TRM methodologies and inputs 2019 described in Figure 5 1 and Table 5 3 for estimating storage water heaters.	data quality to reflect all decimals in efficiency injusts going forward Norc Gas uses a "ResingendiseWhrn" (Eric of 1 for all industrial 6/30/2020 steam traps. This project contained a data error. Norc Gas will ensure that all "Leaking-And Blow Hrn" injusts are consistent with the TRM or a provide source of custom injusts. These projects initially had errors in data. Norc Gas has used the TRM 6/3/3/2020 intendedisegies and logic described in Figure 51 and Table 53 for estimating storage water heaters in PY2020. Norc Gas clarified that the TRM value (12,000 buth) was used, and
er Er	Nicor Gas should ensure that all "LeakingAndBlowThru" inputs are consistent with 2019 the TRM or a provide source of custom inputs. Guidehouse recommends that Nicor Gas use the TRM methodologies and inputs 2019 described in Figure 5 1 and Table 5 3 for estimating storage water heaters. Nicor Gas should use the inputs provided in the tracking data to calculate the 2019 gost herms aswings for convection overs.	data quality to reflect all decimals in efficiency injusts going forward Norco Fas uses a "resikingandilowThm" pitcor of 1 for all industrial 6/30/2000 steem traps. This project contained a data error. Norc Gas will ensure provide source of custom injusts. The sport of the project contained a data. Nicor Gas has used the TBM 6/30/2020 methodologies and injusts described in Figure 5 1 and Table 5 3 for streaming storage where heaters in P2020. Nicor Gas clarified that the TBM value (12,000 btuh) was used, and 6/30/2020 disregarded the tracking data value (13,000 btuh). Nicor Gas will make
SR SR	Nicor Gas should ensure that all "LeakingAndBlowThru" inputs are consistent with 2019 the TRM or a provide source of custom inputs. Guidehouse recommends that Nicor Gas use the TRM methodologies and inputs 2019 described in Figure 51 and Table 53 for estimating storage water heaters. Nicor Gas should use the inputs provided in the tracking data to calculate the 2019 gross therms savings for convection overs. Custom inputs used for incepeowe (IPP) or heating efficiency ("actual if known"	data quality to reflect all decimals in efficiency injust going forward Noro Cas uses a "resikingandisblowThm" (factor of 1 for all indivastrial 6/30/2020) steam traps. This project contained a data error. Noro Cas will ensure steam traps. This project contained a data error. Noro Cas will ensure provide source of custom inputs. These projects insibility had errors in data. Noro Cas has used the TRM 6/30/2020 methodologies and inputs described in Figure 5 1 and Table 5 3 for estimating stonger water heaters in PF2028. Noro cas calified that the TRM value (12,000 btush) was used, and 6/30/2020 disregarded the tracking data value (13,000 btush). Nicor Gas will make ser the data accuracy in PF2020.
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