

Comparison between NERC FAC-003-1 and Alberta FAC-003-AB-1 Transmission Vegetation Management Program			
Section	NERC FAC-003-1	Alberta FAC-003-AB-1	Reason for difference
Purpose	To improve the reliability of the electric transmission systems by preventing outages from vegetation located on transmission rights-of-way (ROW) and minimizing outages from vegetation located adjacent to ROW, maintaining clearances between transmission lines and vegetation on and along transmission ROW, and reporting vegetation related outages of the transmission systems to the respective Regional Reliability Organizations (RRO) and the North American Electric Reliability Council (NERC).	<u>The purpose of this <i>reliability standard</i> is to improve the reliability of electric transmission systems by preventing outages from vegetation located on a ROW and minimizing outages from vegetation located adjacent to a ROW, maintaining clearances between <i>transmission facilities</i> and vegetation on and along a ROW, and reporting vegetation related outages of electric transmission systems to the ISO and the WECC.</u>	Minor change to writing style. Substituted facilities for lines to include other electrical equipment that could exist in ROWs.
Applicability	<p>4.1. Transmission Owner.</p> <p>4.2. Regional Reliability Organization.</p> <p>4.3. This standard shall apply to all transmission lines operated at 200 kV and above and to any lower voltage lines designated by the RRO as critical to the reliability of the electric system in the region.</p>	<p><u>This <i>reliability standard</i> applies to the entities listed below and applies to all <i>transmission facilities</i> operated at 200 kV and above and any lower voltage <i>transmission facilities</i> designated by the ISO as critical to the reliability of the AIES. ROWs that are assessed and identified on an annual basis not to have vegetation capable of growing higher than 2 meters are excluded.</u></p> <ul style="list-style-type: none"> <i>transmission facility owners</i> including 	<p>Alberta Variance¹: Added exemption for ROWs that do not have vegetation capable of growing higher than 2 meters as they do not pose a risk for vegetation related outages.</p> <p>Identified the responsible entities in Alberta.</p>

¹ Alberta Variance is a change from the US Reliability Standard that the AESO has determined is material.

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		<p><u>generating facility owners that own transmission facilities</u></p> <ul style="list-style-type: none"> • <u>Independent System Operator</u> 	
Effective Date	<p>5.1. One calendar year from the date of adoption by the NERC Board of Trustees for Requirements 1 and 2.</p> <p>5.2. Sixty calendar days from the date of adoption by the NERC Board of Trustees for Requirements 3 and 4.</p>	<p><u>This reliability standard becomes effective 60 days after the date approved by the Commission with the exception of Requirements R1 and R2 which become effective one year after the date approved by the Commission.</u></p>	Identified when this standard becomes effective in Alberta.
Definitions		<p>Italicized terms used in this <i>reliability standard</i> have the meanings as set out in Part 1 of the <i>ISO Rules</i>, including, but not limited to, the following terms:</p> <ul style="list-style-type: none"> ▪ <i>AIES</i> ▪ <i>Commission</i> ▪ <i>generating facility owner</i> ▪ <i>Independent System Operator</i> or <i>ISO</i>² ▪ <i>NERC</i> ▪ <i>reliability standard</i> ▪ <i>Right-of-Way</i> or <i>ROW</i> ▪ <i>sustained outage</i> ▪ <i>transmission facility</i> 	Added definitions section to the Alberta reliability standard.

² Where a defined term is followed by an acronym, the acronym may be used as an alternative to the defined term.

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		<ul style="list-style-type: none"> ▪ <i>transmission facility owner</i> or <i>TFO</i> ▪ <i>Transmission Vegetation Management Program</i> or <i>TVMP</i> ▪ <i>WECC</i> 	
Requirements	<p>R1. The Transmission Owner shall prepare, and keep current, a formal transmission vegetation management program (TVMP). The TVMP shall include the Transmission Owner’s objectives, practices, approved procedures, and work specifications².</p>	<p>R1 The <i>TFO</i> <u>must</u> prepare, and <u>update at least annually</u>, a <i>TVMP</i>. The <i>TVMP</i> <u>must</u> include the <i>TFO</i>’s objectives, practices, approved procedures, and work specifications.³</p>	<p>Identified the responsible entity in Alberta.</p> <p>Replaced the passive term “shall” with “must”.</p> <p>Alberta Variance⁴: In order to have a measurable quantity and align with the annual growing season, updates were specified by the ARC Technical Working Group to occur at least annually.</p>
	<p>R1.1. The TVMP shall define a schedule for and the type (aerial, ground) of ROW vegetation inspections. This schedule should be flexible enough to adjust for changing</p>	<p>R1.1 The <i>TVMP</i> <u>must</u> define a schedule for and the type (aerial or ground) of <i>ROW</i> vegetation inspections. This schedule <u>must</u> be flexible enough to adjust for changing conditions. The inspection schedule <u>must</u> be</p>	<p>Replaced the passive term “shall” with “must”.</p> <p>Identified the applicable entity in Alberta.</p>

³ ANSI A300, Tree Care Operations – Tree, Shrub, and Other Woody Plant Maintenance – Standard Practices, while not a requirement of this reliability standard, is considered by *NERC* to be an industry best practice.

⁴ Alberta Variance is a change from the US Reliability Standard that the AESO has determined is material.

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	conditions. The inspection schedule shall be based on the anticipated growth of vegetation and any other environmental or operational factors that could impact the relationship of vegetation to the Transmission Owner's transmission lines.	based on the anticipated growth of vegetation and any other environmental or operational factors that could impact the relationship of vegetation to the <i>transmission facilities</i> of the <i>TFO</i> .	Substituted facilities for lines to include other electrical equipment that could exist in ROWs.
	R1.2. The Transmission Owner, in the TVMP, shall identify and document clearances between vegetation and any overhead, ungrounded supply conductors, taking into consideration transmission line voltage, the effects of ambient temperature on conductor sag under maximum design loading, and the effects of wind velocities on conductor sway. Specifically, the Transmission Owner shall establish clearances to be achieved at the time of vegetation management work identified herein as Clearance 1, and shall also establish and maintain a set of clearances identified herein as Clearance 2 to prevent flashover between vegetation and overhead ungrounded supply conductors.	R1.2 The <i>TFO</i> , in the <i>TVMP</i> , <u>must</u> identify and document clearances between vegetation and any overhead, ungrounded supply conductors, taking into consideration transmission line voltage, the effects of ambient temperature on conductor sag under maximum design loading, and the effects of wind velocities on conductor sway. Specifically, the <i>TFO</i> must establish clearances to be achieved at the time of vegetation management work identified herein as Clearance 1, and <u>must</u> also establish and maintain a set of clearance requirements identified herein as Clearance 2 to prevent flashover between vegetation and overhead ungrounded supply conductors.	Identified the responsible entity in Alberta. Replaced the passive term "shall" with "must".
	R1.2.1. Clearance 1 — The	R1.2.1 Clearance 1 — The <i>TFO</i> <u>must</u>	Identified the responsible

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	<p>Transmission Owner shall determine and document appropriate clearance distances to be achieved at the time of transmission vegetation management work based upon local conditions and the expected time frame in which the Transmission Owner plans to return for future vegetation management work. Local conditions may include, but are not limited to: operating voltage, appropriate vegetation management techniques, fire risk, reasonably anticipated tree and conductor movement, species types and growth rates, species failure characteristics, local climate and rainfall patterns, line terrain and elevation, location of the vegetation within the span, and worker approach distance requirements. Clearance 1 distances shall be greater than those defined by Clearance 2 below.</p>	<p>determine and document appropriate clearance distances to be achieved at the time of vegetation management work based upon local conditions and the expected time frame in which the <i>TFO</i> plans to return for future vegetation management work. Local conditions may include, but are not limited to: operating voltage, appropriate vegetation management techniques, fire risk, reasonably anticipated tree and conductor movement, species types and growth rates, species failure characteristics, local climate and rainfall patterns, line terrain and elevation, location of the vegetation within the span, and worker approach distance requirements. Clearance 1 distances <u>must</u> be greater than those defined by Clearance 2 below.</p>	<p>entity in Alberta.</p> <p>Replaced the passive term “shall” with “must”.</p>

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	<p>R1.2.2. Clearance 2 — The Transmission Owner shall determine and document specific radial clearances to be maintained between vegetation and conductors under all rated electrical operating conditions. These minimum clearance distances are necessary to prevent flashover between vegetation and conductors and will vary due to such factors as altitude and operating voltage. These Transmission Owner-specific minimum clearance distances shall be no less than those set forth in the Institute of Electrical and Electronics Engineers (IEEE) Standard 516-2003 (<i>Guide for Maintenance Methods on Energized Power Lines</i>) and as specified in its Section 4.2.2.3, Minimum Air Insulation Distances without Tools in the Air Gap.</p>	<p>R1.2.2 Clearance 2 — The <u>TFO must</u> determine and document specific radial clearances to be maintained between vegetation and conductors under all rated electrical operating conditions. These minimum clearance distances are necessary to prevent flashover between vegetation and conductors and will vary due to such factors as altitude and operating voltage. These <u>TFO documented</u> specific minimum clearance distances must be no less than those set forth in the <i>IEEE</i> Standard 516-2003 (<i>Guide for Maintenance Methods on Energized Power Lines</i>) and as specified in its Section 4.2.2.3, Minimum Air Insulation Distances without Tools in the Air Gap.</p>	<p>Identified the responsible entity in Alberta.</p> <p>Replaced the passive term “shall” with “must”.</p> <p>Added clarity that these are the documented clearance distances.</p>
	<p>R1.2.2.1 Where transmission system transient overvoltage factors are not known, clearances shall be derived from Table 5, IEEE 516-2003, phase-</p>	<p>R1.2.2.1 Where transmission system transient overvoltage factors are not known, clearances must be derived from Table 5, <i>IEEE</i> 516-2003, phase-to-ground distances, with</p>	

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	to-ground distances, with appropriate altitude correction factors applied.	appropriate altitude correction factors applied.	
	R1.2.2.2 Where transmission system transient overvoltage factors are known, clearances shall be derived from Table 7, IEEE 516-2003, phase-to-phase voltages, with appropriate altitude correction factors applied.	R1.2.2.2 Where transmission system transient overvoltage factors are known, clearances must be derived from Table 7, IEEE 516-2003, phase-to-phase voltages, with appropriate altitude correction factors applied.	
	R1.3. All personnel directly involved in the design and implementation of the TVMP shall hold appropriate qualifications and training, as defined by the Transmission Owner, to perform their duties.	R1.3 All personnel directly involved in the design and implementation of the <i>TVMP</i> must hold appropriate qualifications and training, as defined by the <i>TFO</i> , to perform their duties.	Identified the applicable entity in Alberta.
	R1.4. Each Transmission Owner shall develop mitigation measures to achieve sufficient clearances for the protection of the transmission facilities when it identifies locations on the ROW where the Transmission Owner is restricted from attaining the clearances specified in Requirement 1.2.1.	R1.4 Each <i>TFO</i> must develop mitigation measures to achieve sufficient clearances for the protection of the <i>transmission facilities</i> when it identifies locations on the ROW where the <i>TFO</i> is restricted from attaining the clearances specified in R1.2.1.	Identified the responsible entity in Alberta. Replaced the passive term “shall” with “must”.
	R1.5. Each Transmission Owner shall establish and document a process for the immediate communication of vegetation conditions that present an	R1.5 Each <i>TFO</i> must establish and document a process for the immediate communication of vegetation conditions that present an imminent threat of a transmission line outage.	Identified the responsible entity in Alberta. Replaced the passive term

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	imminent threat of a transmission line outage. This is so that action (temporary reduction in line rating, switching line out of service, etc.) may be taken until the threat is relieved.	This is so that action (temporary reduction in line rating, switching line out of service, etc.) may be taken until the threat is relieved.	“shall” with “must”.
	R2. The Transmission Owner shall create and implement an annual plan for vegetation management work to ensure the reliability of the system. The plan shall describe the methods used, such as manual clearing, mechanical clearing, herbicide treatment, or other actions. The plan should be flexible enough to adjust to changing conditions, taking into consideration anticipated growth of vegetation and all other environmental factors that may have an impact on the reliability of the transmission systems. Adjustments to the plan shall be documented as they occur. The plan should take into consideration the time required to obtain permissions or permits from landowners or regulatory authorities. Each Transmission Owner shall have systems and procedures for documenting and tracking the planned	R2 The <u>TFO must</u> create and implement an annual plan for vegetation management work to ensure the reliability of <u>electric transmission systems</u> . The plan <u>must</u> describe the methods used, such as manual clearing, mechanical clearing, herbicide treatment, or other actions. The plan <u>must</u> be flexible enough to adjust to changing conditions, taking into consideration anticipated growth of vegetation and all other environmental factors that may have an impact on the reliability of <u>electric</u> transmission systems. Adjustments to the plan <u>must</u> be documented as they occur. The plan <u>must</u> take into consideration the time required to obtain permissions or permits from landowners or regulatory authorities. Each <u>TFO must</u> have systems and procedures for documenting and tracking the planned vegetation management work and ensuring that the vegetation management work was completed according to work specifications.	Identified the responsible entity in Alberta. Replaced the passive term “shall” with “must”. Made the requirement specific to electric transmission systems.

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	vegetation management work and ensuring that the vegetation management work was completed according to work specifications.		
	R3. The Transmission Owner shall report quarterly to its RRO, or the RRO's designee, sustained transmission line outages determined by the Transmission Owner to have been caused by vegetation.	R3 Each <u>TFO</u> <u>must</u> report quarterly to the <u>ISO</u> , <u>sustained outages to transmission facilities</u> determined by the <u>TFO</u> to have been caused by vegetation.	Identified the responsible entity in Alberta. Replaced the passive term "shall" with "must". Modified to use terms defined in the ISO Rules.
	R3.1. Multiple sustained outages on an individual line, if caused by the same vegetation, shall be reported as one outage regardless of the actual number of outages within a 24- hour period.	R3.1 Multiple sustained outages on an individual transmission line, if caused by the same vegetation, <u>must</u> be reported as one outage regardless of the actual number of outages within a 24- hour period.	Replaced the passive term "shall" with "must".
	R3.2. The Transmission Owner is not required to report to the RRO, or the RRO's designee, certain sustained transmission line outages caused by vegetation: (1) Vegetation related outages that result from vegetation falling into lines from outside the ROW that result	R3.2 The <u>TFO</u> is not required to report to the <u>ISO</u> <u>sustained outages to transmission facilities</u> caused by vegetation <u>as follows</u> : (1) Vegetation related outages that result from vegetation falling into transmission lines from outside the <u>ROW</u> that result from natural disasters <u>are</u> not considered	Identified the responsible entity in Alberta. Modified to use terms defined in the ISO Rules.

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	<p>from natural disasters shall not be considered reportable (examples of disasters that could create non-reportable outages include, but are not limited to, earthquakes, fires, tornados, hurricanes, landslides, wind shear, major storms as defined either by the Transmission Owner or an applicable regulatory body, ice storms, and floods), and</p> <p>(2) Vegetation-related outages due to human or animal activity shall not be considered reportable (examples of human or animal activity that could cause a non-reportable outage include, but are not limited to, logging, animal severing tree, vehicle contact with tree, arboricultural activities or horticultural or agricultural activities, or removal or digging of vegetation).</p>	<p>reportable (examples of disasters include, but are not limited to, earthquakes, fires, tornados, hurricanes, landslides, wind shear, ice storms, floods, major storms as defined either by the <u>TFO</u> or an applicable regulatory body).</p> <p>(2) Vegetation related <i>outages</i> due to human or animal activity <u>are</u> not considered reportable (examples of human or animal activity include, but are not limited to, logging, animal severing tree, vehicle contact with tree, arboricultural, horticultural or agricultural activities, or removal/digging of vegetation).</p>	
	<p>R3.3. The outage information provided by the Transmission Owner to the RRO, or the RRO’s designee, shall include at a minimum: the name of the circuit(s) outaged, the date, time and duration of the outage; a description of the cause of the outage;</p>	<p>R3.3 The <i>outage</i> information provided by the <u>TFO</u> to the <u>ISO</u> <u>must</u> include at a minimum:</p> <ul style="list-style-type: none"> • <u>number or name of the transmission line(s) forced out of service,</u> • date and time 	<p>Identified the responsible entity in Alberta.</p> <p>Replaced the passive term “shall” with “must”.</p> <p>Changed to include line</p>

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	other pertinent comments; and any countermeasures taken by the Transmission Owner.	<ul style="list-style-type: none"> • duration of the outage • description of the cause of the outage • other pertinent comments • counter measures taken by the <i>TFO</i> 	number designations used in Alberta.
	<p>R3.4. An outage shall be categorized as one of the following:</p> <p>R3.4.1. Category 1 — Grow-ins: Outages caused by vegetation growing into lines from vegetation inside and/or outside of the ROW;</p> <p>R3.4.2. Category 2 — Fall-ins: Outages caused by vegetation falling into lines from inside the ROW;</p> <p>R3.4.3. Category 3 — Fall-ins: Outages caused by vegetation falling into lines from outside the ROW.</p>	<p>R3.4 An outage <u>must</u> be categorized as one of the following:</p> <p>R3.4.1 Category 1 — Grow-ins: Outages caused by vegetation growing into lines from vegetation inside and/or outside of the <i>ROW</i>;</p> <p>R3.4.2 Category 2 — Fall-ins: Outages caused by vegetation falling into lines from inside the <i>ROW</i>;</p> <p>R3.4.3 Category 3 — Fall-ins: Outages caused by vegetation falling into lines from outside the <i>ROW</i>.</p>	Replaced the passive term “shall” with “must”.
		<p><u>R4 The ISO must report quarterly to WECC, sustained outages to transmission lines determined by the TFO to have been caused by vegetation.</u></p> <p><u>R4.1 Multiple sustained outages on an individual transmission line, if caused by the</u></p>	Added R4 to R4.4.3 to include a new requirement for the ISO to report outages to WECC.

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		<p><u>same vegetation, must be reported as one outage regardless of the actual number of outages within a 24- hour period.</u></p> <p><u>R4.2 The ISO is not required to report to WECC, sustained outages to transmission facilities caused by vegetation as follows:</u></p> <p><u>(1) Vegetation related outages that result from vegetation falling into lines from outside the ROW that result from natural disasters are not considered reportable (examples of disasters include, but are not limited to, earthquakes, fires, tornados, hurricanes, landslides, wind shear, ice storms, floods, major storms as defined either by the TFO, or an applicable regulatory body).</u></p> <p><u>(2) Vegetation-related outages due to human or animal activity are not considered reportable (examples of human or animal activity include, but are not limited to, logging, animal severing tree, vehicle contact with tree, arboricultural, horticultural or agricultural activities, or removal/digging of vegetation).</u></p> <p><u>R4.3 The outage information provided by the ISO to WECC must include at a</u></p>	

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		<p><u>minimum:</u></p> <ul style="list-style-type: none"> • <u>number or name of the transmission line(s) forced out of service,</u> • <u>date and time</u> • <u>duration of the outage</u> • <u>description of the cause of the outage</u> • <u>other pertinent comments</u> • <u>counter measures taken by the TFO</u> <p><u>R4.4 An outage must be categorized as one of the following:</u></p> <p><u>R4.4.1 Category 1 — Grow-ins: Outages caused by vegetation growing into lines from vegetation inside and/or outside of the ROW;</u></p> <p><u>R4.4.2 Category 2 — Fall-ins: Outages caused by vegetation falling into lines from inside the ROW;</u></p> <p><u>R4.4.3 Category 3 — Fall-ins: Outages caused by vegetation falling into lines from outside the ROW.</u></p>	

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	R4. The RRO shall report the outage information provided to it by Transmission Owner's, as required by Requirement 3, quarterly to NERC, as well as any actions taken by the RRO as a result of any of the reported outages.		Deleted NERC Requirement R4 in the AB reliability standard as the requirement does not apply to an Alberta entity.
Procedures	None	None	
Measures	M1. The Transmission Owner has a documented TVMP, as identified in Requirement 1.	MR1 <u>The TFO must prepare and update a TVMP in accordance with the ISO TVMP template. The TFO must provide a TVMP revision history to the ISO on an annual basis. The TVMP must be provided to the ISO within 30 days if requested.</u>	Identified the responsible entity in Alberta. Revised measure to align with Alberta Requirement R1. A template will be developed and provided to the TFOs for documenting the TVMP in a consistent format. Specified when information is to be provided.
	M1.1. The Transmission Owner has documentation that the Transmission Owner performed the vegetation inspections as identified in	MR1.1 <u>The TFO must have a documented vegetation inspection schedule in the TVMP and documentation that the TFO performed the inspections. This documentation must be</u>	Identified the responsible entity in Alberta. Modified to specify that an

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	Requirement 1.1.	<u>provided to the ISO within 30 days if requested.</u>	inspection schedule is required, and that the schedule is followed. Also added when the documentation is to be provided.
	M1.2. The Transmission Owner has documentation that describes the clearances identified in Requirement 1.2.	MR1.2 <u>The TFO must have documented clearances as identified in R1.2 in the TVMP.</u>	Identified the responsible entity in Alberta. Modified to specify that clearances have to be documented.
		<u>MR1.2.1 The TFO must have documented Clearance 1 as identified in R1.2.1 in the TVMP.</u>	Added a specific measure for the requirement and identified the responsible Alberta entity.
		<u>MR1.2.2 The TFO must have documented Clearance 2 as identified in R1.2.2 in the TVMP.</u>	Added a specific measure for the requirement and identified the responsible Alberta entity.
		<u>MR1.2.2.1 The TFO must prepare documentation in the TVMP that describes Clearance 2 under conditions identified in R1.2.2.1.</u>	Added a specific measure for the requirement and identified the responsible Alberta entity.
		<u>MR1.2.2.2 The TFO must prepare documentation in the TVMP that describes</u>	Added a specific measure for the requirement and

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		<u>Clearance 2 under conditions identified in R1.2.2.2.</u>	identified the responsible Alberta entity.
	M1.3. The Transmission Owner has documentation that the personnel directly involved in the design and implementation of the Transmission Owner's TVMP hold the qualifications identified by the Transmission Owner as required in Requirement 1.3.	MR1.3 <u>The TFO must have documented requirements for all personnel directly involved in the design and implementation of the TVMP. Further, the TFO must have training records, copies of licenses, or other documentation that shows personnel met the requirements.</u>	Identified the responsible entity in Alberta. Specified the type of evidence the TFO must have.
	The Transmission Owner has documentation that it has identified any areas not meeting the Transmission Owner's standard for vegetation management and any mitigating measures the Transmission Owner has taken to address these deficiencies as identified in Requirement 1.4.	MR1.4 <u>The TFO must have documentation that it has identified any locations not meeting the clearances as identified in R1.2.1 for vegetation management and any mitigating measures the TFO has taken to address these deficiencies as identified in R1.4.</u>	Identified the responsible entity in Alberta. Provided a specific reference to established clearances.
	M1.5. The Transmission Owner has a documented process for the immediate communication of imminent threats by vegetation as identified in Requirement 1.5.	MR1.5 <u>The TFO must have a documented process for the immediate communication of imminent threats by vegetation as identified in R1.5.</u>	Identified the responsible entity in Alberta.
	M2. The Transmission Owner has documentation that the Transmission Owner implemented the work plan	MR2 <u>The TFO must have documentation (in accordance with the ISO template) that it implemented the work plan identified in R2.</u>	Identified the responsible entity in Alberta.

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	identified in Requirement 2.	<u>This documentation must be provided annually to the ISO or within 30 days of an ISO request.</u>	A template will be provided for documenting the implementation of the work plan in a consistent format. Specified when documentation is to be provided.
	M3. The Transmission Owner has documentation that it has supplied quarterly outage reports to the RRO, or the RRO's designee, as identified in Requirement 3.	MR3 to MR3.4.3 The <u>TFO</u> must supply quarterly outage reports to the <u>ISO</u> , as identified in Requirements R3 to R3.4.3, inclusive.	Deemed that it is sufficient to supply the reports quarterly to the ISO without specifying the need for documentation.
		<u>MR4 to MR4.4.3 The ISO must supply quarterly outage reports to the WECC, as identified in Requirements R4 to R4.4.3, inclusive.</u>	Identified the responsible entity in Alberta. Specified reporting relationships.
	M4. The RRO has documentation that it provided quarterly outage reports to NERC as identified in Requirement 4.		RRO reports outages to NERC. This measure does not apply to an Alberta entity.
Compliance	D. Compliance 1. Compliance Monitoring Process 1.1. Compliance Monitoring Responsibility		There is no compliance section currently proposed in the Alberta Reliability Standards.

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	<p>RRO NERC 1.2. Compliance Monitoring Period and Reset One calendar Year 1.3. Data Retention Five Years 1.4. Additional Compliance Information The Transmission Owner shall demonstrate compliance through self-certification submitted to the compliance monitor (RRO) annually that it meets the requirements of NERC Reliability Standard FAC-003-1. The compliance monitor shall conduct an onsite audit every five years or more frequently as deemed appropriate by the compliance monitor to review documentation related to Reliability Standard FAC-003-1. Field audits of ROW vegetation conditions may be conducted if determined to be necessary</p>		<p>A compliance program will be developed at a later date for Alberta Reliability Standards that recognizes the compliance monitoring and enforcement structure in Alberta.</p> <p>This approach is deemed consistent with the existing ISO Rules</p>

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	<p>by the compliance monitor.</p> <p>2. Levels of Non-Compliance</p> <p>2.1. Level 1:</p> <p>2.1.1. The TVMP was incomplete in one of the requirements specified in any subpart of Requirement 1, or;</p> <p>2.1.2. Documentation of the annual work plan, as specified in Requirement 2, was incomplete when presented to the Compliance Monitor during an on-site audit, or;</p> <p>2.1.3. The RRO provided an outage report to NERC that was incomplete and did not contain the information required in Requirement 4.</p> <p>2.2. Level 2:</p> <p>2.2.1. The TVMP was incomplete in two of the requirements specified in any subpart of Requirement 1, or;</p> <p>2.2.2. The Transmission Owner was unable to certify during its annual self certification that it fully implemented its annual</p>		

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Section	NERC FAC-003-1	Alberta FAC-003-AB-1	Reason for difference
	<p>work plan, or documented deviations from, as specified in Requirement 2.</p> <p>2.2.3. The Transmission Owner reported one Category 2 transmission vegetation related outage in a calendar year.</p> <p>2.3. Level 3:</p> <p>2.3.1. The Transmission Owner reported one Category 1 or multiple Category 2 transmission vegetation-related outages in a calendar year, or;</p> <p>2.3.2. The Transmission Owner did not maintain a set of clearances (Clearance 2), as defined in Requirement 1.2.2, to prevent flashover between vegetation and overhead ungrounded supply conductors, or;</p> <p>2.3.3. The TVMP was incomplete in three of the requirements specified in any subpart of Requirement 1.</p> <p>2.4. Level 4:</p> <p>2.4.1. The Transmission Owner reported more than one Category 1</p>		



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Section	NERC FAC-003-1	Alberta FAC-003-AB-1	Reason for difference
	transmission vegetation-related outage in a calendar year, or; 2.4.2. The TVMP was incomplete in four or more of the requirements specified in any subpart of Requirement 1.		
Regional Differences	None		Not applicable in Alberta.