

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 reliability standard is to improve the reliability of electric transmission systems by preventing outages from vegetation located on a <u>right of way, corridor or other route (collectively “ROW”)</u> and minimizing outages from vegetation located adjacent to a ROW, maintaining clearances between transmission <u>facilities</u> and vegetation on and along a ROW, and reporting vegetation related outages of <u>electric</u> transmission systems to the <u>ISO</u> and the <u>WECC</u>.</u>	Minor change to writing style. Substituted facilities for lines to include other electrical equipment that could exist in ROWs.
Applicability	4.1. Transmission Owner. 4.2. Regional Reliability Organization. 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.	4.1. Transmission Owner. 4.2. Regional Reliability Organization. 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. This reliability standard applies to the entities listed below as follows: <ul style="list-style-type: none"> transmission facility owners (including generating facility owners that own 	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. Identified the responsible entities in Alberta.

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

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		<p>transmission facilities) with transmission facilities operated at 200 kV and above and any lower voltage transmission facilities designated by the ISO as critical to the reliability of the AIES as identified in appendix A; provided that transmission facilities on ROWs that are assessed and identified on an annual basis not to have vegetation capable of growing higher than 2 meters are excluded; and</p> <ul style="list-style-type: none"> • Independent System Operator 	
Effective Date	<p>5.1. One calendar year from the date of adoption by the NERC Board of Trustees for Requirements 1 and 2. 5.2. Sixty calendar days from the date of adoption by the NERC Board of Trustees for Requirements 3 and 4.</p>		To appear in the footer of the reliability standard.
Definitions		<p><u>Italicized terms used in this <i>reliability standard</i> have the meanings as set out in the <u>Alberta Reliability Standards Glossary of Terms and Part 1 of the ISO Rules.</u></u></p>	Added definitions section to the Alberta reliability standard.

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Requirements	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 specifications ² .	R1 <u>Each TFO must prepare a TVMP. This program is to be updated at least annually.</u> The TVMP <u>must</u> include the <u>TFO’s</u> objectives, practices, approved procedures, and work specifications. ²	Identified the responsible entity in Alberta. Replaced the passive term “shall” with “must”. Alberta Variance³: 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.
	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 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.	R1.1 The <u>TVMP must</u> define a schedule for and the type (aerial or ground) of ROW vegetation inspections. This schedule <u>must</u> be flexible enough to adjust for changing conditions. The inspection schedule <u>must</u> 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 <u>facilities</u> of the <u>TFO</u> . <u>The TFO must perform vegetation inspections as identified in the schedule.</u>	Replaced the passive term “shall” with “must”. Identified the applicable entity in Alberta. Substituted facilities for lines to include other electrical equipment that could exist in ROWs.

² 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.

³ Alberta Variance is a change from the US Reliability Standard that the AESO has determined is material.

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	<p>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.</p>	<p>R1.2 The TVMP, <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 <u>TFO</u> 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.</p>	<p>Identified the responsible entity in Alberta.</p> <p>Replaced the passive term “shall” with “must”.</p>
	<p>R1.2.1. Clearance 1 — The 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</p>	<p>R1.2.1 Clearance 1 — <u>Each TFO must</u> 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 <u>TFO</u> 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</p>	<p>Identified the responsible entity in Alberta.</p> <p>Replaced the passive term “shall” with “must”.</p>

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	<p>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>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 in Clearance 2.</p>	
	<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-</p>	<p>R1.2.2 Clearance 2 — <u>Each TFO must</u> determine and document specific <u>minimum radial clearance distances</u> to be maintained between vegetation and conductors under all rated electrical operating conditions. These minimum <u>radial</u> clearance distances are necessary to prevent flashover between vegetation and conductors and will vary due to such factors as altitude and operating voltage. <u>Subject to R1.2.2.1 and R1.2.2.2</u> these <u>TFO documented</u> specific minimum clearance distances must be no less than those set forth in the IEEE Standard 516-</p>	<p>Identified the responsible entity in Alberta. Replaced the passive term “shall” with “must”. Reworded for clarity.</p> <p>Added clarity that these are the documented clearance distances.</p>

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	specific minimum clearance distances shall be no less than those set forth in the Institute of Electrical and Electronics Engineers (IEEE) Standard 516-2003 (Guide for Maintenance Methods on Energized Power Lines) and as specified in its Section 4.2.2.3, Minimum Air Insulation Distances without Tools in the Air Gap.	2003 (Guide for Maintenance Methods on Energized Power Lines) and as specified in its Section 4.2.2.3, Minimum Air Insulation Distances without Tools in the Air Gap.	
	R1.2.2.1 Where transmission system transient overvoltage factors are not known, clearances shall be derived from Table 5, IEEE 516-2003, phase-to-ground distances, with appropriate altitude correction factors applied.	R1.2.2.1 Where transmission system transient overvoltage factors are not known, clearances must be derived from Table 5, IEEE 516-2003, phase-to-ground distances, with 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 TVMP must hold appropriate qualifications and <u>must have taken appropriate</u> training, as defined by the <u>TFO</u> , to perform their duties.	Identified the applicable entity in Alberta.
	R1.4. Each Transmission Owner shall develop mitigation measures to	R1.4 Each <u>TFO</u> <u>must</u> develop mitigation measures to achieve sufficient clearances for	Identified the responsible entity in Alberta.

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	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.	the protection of its transmission facilities when it identifies locations on the ROW where it is restricted from attaining the <u>Clearance 1 distances</u> .	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 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.	R1.5 Each <u>TFO must</u> establish and document a process for the immediate communication of vegetation conditions that present an 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.	Identified the responsible entity in Alberta. Replaced the passive term “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	R2 The <u>TFO must</u> create and implement an annual plan for vegetation management work to ensure the reliability of <u>its transmission facilities</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>the AIES</u> . Adjustments to the plan <u>must</u> be documented as they occur. The plan <u>must</u> include the time required to	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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	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 vegetation management work and ensuring that the vegetation management work was completed according to work specifications.	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 <u>TFO's</u> 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 must</u> report quarterly to the ISO, <u>sustained outages to its transmission lines</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	R3.2 The <u>TFO</u> is not required to report to the <u>ISO sustained outages to its transmission lines</u> caused by vegetation <u>as</u>	Identified the responsible entity in Alberta.

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	<p>transmission line outages caused by vegetation:</p> <p>(1) Vegetation related outages that result from vegetation falling into lines from outside the ROW that result 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><u>follows:</u></p> <p>(1) Outages from vegetation-related outages that result from vegetation falling onto a transmission line from outside the <u>ROW caused by a that result from</u> natural disasters <u>are</u> 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 <u>TFO</u> or an applicable regulatory body).</p> <p>(2) <u>Outages from</u> vegetation <u>falling onto a transmission line caused by</u> related outages 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>Modified to use terms defined in the ISO Rules.</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</p>	<p>R3.3 The outage 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</u> 	<p>Identified the responsible entity in Alberta.</p> <p>Replaced the passive term "shall" with "must".</p>

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	duration of the outage; a description of the cause of the outage; other pertinent comments; and any countermeasures taken by the Transmission Owner.	<p><u>of service,</u></p> <ul style="list-style-type: none"> • date and time • duration of the outage • description of the cause of the outage • other pertinent comments • <u>remedial action</u> taken by the TFO 	Changed to include line 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 <u>by the TFO</u> one of the following:</p> <p>R3.4.1 Category 1 — Grow-ins: Outages caused by vegetation growing into <u>transmission</u> 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 <u>transmission</u> lines from inside the ROW;</p> <p>R3.4.3 Category 3 — Fall-ins: Outages caused by vegetation falling into transmission lines from outside the ROW.</p>	<p>Identified the responsible entity in Alberta.</p> <p>Replaced the passive term “shall” with “must”.</p>
		<p>R4 <u>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>R4.1 <u>Multiple sustained outages within a 24-hour period on an individual transmission line, if caused by the same</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>vegetation, must be reported as one outage regardless of the actual number of outages.</u></p> <p><u>R4.2</u> <u>The ISO is not required to report to WECC, sustained outages to transmission lines caused by vegetation as follows:</u></p> <p>- <u>Outages from vegetation falling onto transmission lines from outside the ROW caused by natural disasters are not 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>Outages from vegetation caused by 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</u> <u>The outage information provided by the ISO to WECC must include at a minimum:</u></p> <ul style="list-style-type: none"> • <u>number or name of the transmission line(s) forced out of service.</u> 	

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		<ul style="list-style-type: none"> • <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>remedial action taken by the TFO</u> <p><u>R4.4</u> An outage must be categorized by the TFO as one of the following:</p> <p><u>R4.4.1</u> <u>Category 1 — Grow-ins: Outages caused by vegetation growing into transmission lines from vegetation inside and/or outside of the ROW;</u></p> <p><u>R4.4.2</u> <u>Category 2 — Fall-ins: Outages caused by vegetation falling into transmission lines from inside the ROW;</u></p> <p><u>R4.4.3</u> <u>Category 3 — Fall-ins: Outages caused by vegetation falling into transmission 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	

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Measures	<p>M1. The Transmission Owner has a documented TVMP, as identified in Requirement 1.</p>	<p><u>The following measures correspond to the requirements identified in Section 5 of this reliability standard. For example, MR1 is the measure for R1.</u></p> <p><u>These measures will be used by the ISO in carrying out its compliance monitoring duties in accordance with ISO Rule 12. The ISO may consider other data and information, including any provided by a market participant.</u></p> <p>M1. The Transmission Owner has a documented TVMP, as identified in Requirement 1.</p> <p><u>MR1 A revision history of the TVMP is provided annually to the ISO. A TVMP exists and is provided in the format specified in the ISO TVMP template. The TVMP is provided within 30 days of request. The TVMP is complete and includes the required component sections specified in the template.</u></p>	<p>Revised measure to align with Alberta Requirement R1 and specify the type of evidence to be provided for application in Alberta.</p> <p>A template will be developed and provided to the TFOs for documenting the TVMP in a consistent format.</p> <p>Specified when information is to be provided.</p>
	<p>M1.1. The Transmission Owner has documentation that the Transmission Owner performed the vegetation inspections as identified in Requirement 1.1.</p>	<p>M1.1. The Transmission Owner has documentation that the Transmission Owner performed the vegetation inspections as identified in Requirement 1.1.</p> <p><u>MR1.1 A vegetation inspection schedule exists in the TVMP. The schedule is</u></p>	<p>Modified to specify that an inspection schedule is required and specify the type of evidence required.</p>

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		<u>completed in accordance with the ISO TVMP template. The schedule includes all applicable transmission lines. Documentation exists to show that the vegetation inspections have been performed.</u>	
	M1.2. The Transmission Owner has documentation that describes the clearances identified in Requirement 1.2.	M1.2. The Transmission Owner has documentation that describes the clearances identified in Requirement 1.2. MR1.2 <u>Clearance 1 and Clearance 2 values exist in the TVMP.</u>	Specify that clearance values are in the TVMP.
		MR1.2.1 <u>Clearance 1 values exist for every transmission line. Clearance 1 values specified are greater than those of Clearance 2.</u>	Added a specific measure for the requirement.
		MR1.2.2 <u>Clearance 2 values exist for every transmission line. Clearance 2 values specified are greater than the minimum clearances set in IEEE standards for the applicable scenarios.</u>	Added a specific measure for the requirement.

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	<p>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.</p>	<p>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.</p> <p><u>MR1.3</u> Requirements, training, and qualifications for positions responsible for preparing and implementing the TVMP exist. Documentation exists to confirm that personnel meet the requirements, training, and qualifications of the position. Acceptable documentation includes training records, licenses, certificates, and resumes.</p>	Specified the type of evidence required.
	<p>M1.4 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.</p>	<p>M1.4 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.</p> <p><u>MR1.4</u> A list exists and specifies locations on the ROW where Clearance 1 is not attainable. Mitigation measures exist where there are restrictions. Mitigating measures are appropriate and meet the intent of this</p>	Provided a specific reference to established clearances.

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		<u>reliability standard.</u>	
	M1.5. The Transmission Owner has a documented process for the immediate communication of imminent threats by vegetation as identified in Requirement 1.5.	<p>M1.5. The Transmission Owner has a documented process for the immediate communication of imminent threats by vegetation as identified in Requirement 1.5.</p> <p>MR1.5 <u>A documented process or procedure for communication exists. The process is appropriate and of sufficient detail to meet the intent of the requirement.</u></p>	Specified the type of evidence required.
	M2. The Transmission Owner has documentation that the Transmission Owner implemented the work plan identified in Requirement 2.	<p>M2. The Transmission Owner has documentation that the Transmission Owner implemented the work plan identified in Requirement 2.</p> <p>MR2 <u>A work plan exists in the form of the ISO vegetation management work plan template. The work plan is complete. The work plan is submitted annually and within 30 days of being requested.</u></p> <p><u>Evidence exists to show that the work plan is implemented. Evidence may include status and inspection reports, work orders, and/or contracts. The work plan is being followed in accordance to the schedule. The work is completed in accordance with the work plan. Revision documentation exists where the plan has been revised. Evidence is provided</u></p>	<p>A template will be provided for documenting the implementation of the work plan in a consistent format.</p> <p>Specified type of evidence required and when documentation is to be provided.</p>

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		to the ISO within 30 days of a request.	
	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.	<p>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.</p> <p>MR3 to MR3.4.3 Quarterly reports are submitted to the ISO by the dates specified by the ISO. Quarterly reports contain all vegetation outages received for that reporting period. Quarterly reports contain the specific information in the requirement.</p> <p>MR4 to MR4.4.3 Quarterly reports are submitted to the WECC by dates specified by WECC. Quarterly reports contain all vegetation outages received by the ISO for that reporting period. Quarterly reports contain the specific information in the requirement.</p>	<p>Deemed that it is sufficient to supply the reports quarterly to the ISO without specifying the need for documentation.</p> <p>Divided the measure to account for the different reporting relationships.</p>
	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 RRO NERC		<p>There is no compliance section currently proposed in the Alberta Reliability Standards.</p> <p>A compliance program will</p>

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	<p>1.2. Compliance Monitoring Period and Reset One calendar Year</p> <p>1.3. Data Retention Five Years</p> <p>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 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</p>		<p>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>

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
	<p>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 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>		

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
	<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 transmission vegetation-related outage in a calendar year, or;</p> <p>2.4.2. The TVMP was incomplete in four or more of the requirements specified in any subpart of Requirement 1.</p>		
Regional Differences	None identified.		Not applicable in Alberta.
Attachment / Appendix		<u>Appendix A - Transmission Facilities Designated as Critical to the AIES</u>	

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
		<p><u>The following facilities have been identified as critical to the AIES and require the application of this standard.</u></p> <p><u>- 887L (Pocaterra T48S - Alberta / BC border)</u></p> <p><u>- 777L (Pocaterra T48S - Seebe T245S)</u></p> <p><u>- 786L (Coleman T799S - Alberta / BC border)</u></p> <p><u>- 170L (Coleman T799S - Pincher Creek T396S)</u></p>	
Guidelines	None	None	