BEFORE

THE PUBLIC UTILITIES COMMISSION OF OHIO

In the Matter of the Application of Duke)	
Energy Ohio, Inc., for Approval of)	
Revised Paragraph (f) of its Proposed)	Case No.16-915-EL-ESS
Programs for Inspection, Maintenance)	
Repair and Replacement of Distribution)	
and Transmission Lines.)	

APPLICATION OF DUKE ENERGY OHIO, INC. FOR APPROVAL OF REVISED PARAGRAPH (F) OF ITS PROGRAMS FOR INSPECTION, MAINTENANCE, REPAIR AND REPLACEMENT OF DISTRIBUTION AND TRANSMISSION LINES

The Public Utilities Commission of Ohio (Commission) regulations provide that each "electric utility and transmission owner shall establish, maintain, and comply with written programs, policies, procedures, and schedules for the inspection, maintenance, repair, and replacement of its transmission and distribution circuits and equipment," Rule 4901:1-10-27(E)(1). Further, the rules provide that all revisions or amendments requested by an electric utility shall be filed with the commission as outlined in paragraph (E)(2) of the rule. Pursuant to Rule 4901:1-10-27(E)(2), Duke Energy Ohio, Inc. (Duke Energy Ohio) hereby submits a requested change to the language contained within its currently approved inspection, maintenance, repair and replacement programs.

Specifically, Duke Energy Ohio has deleted the language contained only in paragraph (f) and replaced it with a new paragraph (f), "Overhead Electric Line Vegetation Management." Changes to this section were made simply to clarify and make the terms more coherent. There are no substantive changes to the program. For these reasons, Duke Energy Ohio respectfully requests that the Commission approve these changes as requested. A redlined version of the edited section that is included within the overall program terms is attached as Exhibit 1.

Respectfully submitted,

DUKE ENERGY OHIO, INC.

Amy B. Spiller (0047277)
Deputy General Counsel
Elizabeth H. Watts (0031092)
Associate General Counsel

Columbus Office: 155 East Broad Street 20th Floor Columbus, Ohio 43215 (614) 222-1331

Cincinnati Office:
139 Fourth Street
P.O. Box 960
Cincinnati, Ohio 45202
(513) 287-4359
Elizabeth.watts@duke-energy.com
Amy.Spiller@duke-energy.com

4901:1-10-27 (E)(1) Inspection, maintenance, repair, and replacement of transmission and distribution facilities (circuits and equipment).

(a) Poles and Towers

Duke Energy Ohio shall inspect all DEO owned poles on a 10 year schedule and treat, repair or replace as needed. Poles and towers shall be visually inspected in compliance with inspection program 4901:1-10-27 (D)(1),(2). The goal shall be to maintain adequate strength and integrity of poles and towers per the National Electrical Safety Code. Based on the inspection results, repair work orders shall be prepared as needed and tracked until complete.

All equipment and hardware on poles shall be inspected as follows: Duke Energy shall check condition of base of the pole for rotting, termites, and other abnormalities. Poles involved with landslides or "wash outs", leaning for any reason; objects hanging on or near pole; burning pole, cross-arms, and/or braces; ground wire broken; cross-arms or broken braces; bird holes; and vehicular damage. Communities or municipalities often have permission to post/attach traffic control and similar signs on utility poles. Business, political, and yard sale or similar signs shall be removed.

Refer to Exhibit A for complete pole inspection specifications.

Towers shall be inspected as follows: Duke Energy Ohio will inspect for loose, bent, rusty, or missing steel; Duke Energy Ohio shall inspect numbers and "Danger Hi-Voltage" signs; base of tower rusted; involved with landslides or "wash outs"; objects hanging on or near tower; and flashings lights on tower (FAA).

(b) Circuit and Line Inspections

The distribution inspection program shall consist of a driving or walking visual inspection. All distribution circuits shall be inspected on a 5-year schedule as part of the distribution inspection program 4901:1-10-27(D)(1),(2). Inspectors shall document physical defects or other potential hazards to the safe and reliable operation of the circuits. Based on the inspection results, those findings that are determined to be critical will be immediately reported for assessment and repair. Otherwise, repair work orders are prepared as needed and tracked until complete.

Refer to Exhibit B for LEVEL definitions and examples.

When LEVEL 1 (L1) situations are found, the inspector will contact the appropriate district Work Coordinator immediately. If there is no answer, the inspector will leave a message and contact the appropriate District Supervisor and provide complete, detailed and thorough as possible description of the situation found when entering details into eMax. eMax is Duke Energy's computerized maintenance management system in which Duke Energy maintains centralized records of all equipment and maintenance performed on that equipment. This will assist Transmission & Distribution Construction personnel in evaluating the situation.

Two-pole conditions are those where in the field, two poles sit side by side and where one pole is in the process of being removed/changed out. Duke Energy Ohio shall log two-pole conditions into eMax when found in the field. Enter pole numbers, physical location, and

attachments; type and number of attachments. Deteriorated "Elephant Ear" cutouts, deteriorated "Fuzzy Barrel" fuse tubes, taped fuse tubes, and deteriorated, checked or cracked Durabute ("Chicken Wing") cutouts should be logged as a priority LEVEL 3 (L3).

(c) <u>Primary enclosures (e.g., pad-mounted transformers and pad-mounted switch gear) and secondary enclosures (e.g., pedestals and hand holes)</u>

The distribution inspection program shall consist of a visual inspection. All padmounted transformers, secondary pedestals, hands holes and primary switchgear shall be inspected on a 5-year schedule as part of the distribution inspection program 4901:1-10-27(D)(1). Inspectors shall document physical defects or other potential hazards to the operations of the transformers, switch gear, and secondary enclosures. This inspection shall identify exterior physical defects in equipment or potential hazards such as transformers that are rusted, leaking, oil-stained, have broken hinges, missing locks and/or bolts. Based on the inspection results, repair work orders shall be prepared as needed and tracked until complete.

Refer to Exhibit C for priority definitions.

In eMax, the term "TRANSFORMER" – "OTHER" shall be used to refer to damage(s) to box pads.

(d) Line reclosers

Line reclosers and sectionalizers shall be visually inspected each year. The units shall be inspected for signs of damage or deterioration and the operations-counter readings shall be recorded. Items to look for are black or burnt marks on equipment and/or molten metal, indicating that a flash has occurred at the recloser installation. Based on the inspection results, repair work orders shall be prepared as needed and tracked until complete.

A Commissioning Test is performed on all newly installed electronically controlled reclosers. Hydraulic under oil units shall be removed from service every 6 years for maintenance. Vacuum under oil units shall be removed from service every 7 years for maintenance. Work Orders shall be initiated for annual inspections of reclosers. Inspectors shall visually inspect the recloser site for issues, document the counter reading, etc. The inspectors then shall enter the Work Order information into an Excel spreadsheet.

(e) Line capacitors

Electronic remote monitoring will replace the annual visual inspection wherever the capability has been installed and activated. Distribution line capacitors will still be reviewed visually within the existing requirements of the 5 year line patrol program.

As part of the Duke Energy SmartGrid Capacitor upgrades, Duke Energy has implemented two components for monitoring the status of capacitors. The first component is through our DMS system. Alarms are received from capacitors, through DMS, and alert our operators to take action. The second component is CapCentral. CapCentral is a software program that queries historical data in our PI database and identifies trends that need to be addressed.

DMS

The DMS system is set up to receive two types of alarms. We intentionally limited the types of alarms in DMS to those conditions where an operator would need to take action, for the health of the system.

1.) High/Low Voltage Alarm - If too many capacitor banks are in service on the system during low load conditions then a voltage rise on the system occurs. If there are not enough capacitors on the system during peak load conditions then low voltage may occur. In both of these conditions, an operator would need to take action to bring the system back into normal operating conditions.

High Neutral Current Alarm - This occurs when one or two phases of the three phase capacitor bank is removed from service. This can be caused by a fuse operating or a switch failing to close. In this case, because of the voltage imbalance introduced, the operator removes the bank from service. After repairs are completed the bank is restored to service.

CapCentral

The CapCentral system is set up to help us maintain oversight over our fleet of capacitors on our system, based on historical data reported by the capacitor and stored in our PI database. The data points we query do not need immediate action by an operator to maintain the health of the system, but they are data points that give indication to the health of our system and fleet of capacitors. The data points we query using CapCentral are: Delta Voltage, Frequency of Operations, High/Low Voltage, Self Diagnostic, Remote Manual, Loss of Communications, and High Neutral Current.

Based on the results of monitoring the statuses of these capacitors, repair work orders are prepared as needed and tracked until complete.

The repair intervals for issues found during an inspection are the same duration as Circuit and Line inspections. A LEVEL 1 (L1) = 72 hours, LEVEL 3 (L3) = 60 working days maximum, LEVEL 5 (L5) = 6 to 12 months, and LEVEL 7 (L7) = no time frame, not a safety or reliability issue. The repair work for Level 7 issues shall be completed when other equipment is repaired at that location.

(f) Overhead Electric Line Vegetation Management

The following overhead electric line vegetation management requirements are intended to establish minimum clearing cycles by Duke Energy Ohio, and minimum clearances of vegetation from Duke Energy Ohio overhead electric line facilities following such clearing cycles. These requirements shall not be construed to limit Duke Energy Ohio's right to cut down and remove vegetation from a Duke Energy Ohio corridor when Duke Energy Ohio has the legal right to do so, e.g., statute, recorded easement grant, easement by prescription, license, condemnation order, etc.

Distribution Clearing Cycle – Duke Energy Ohio shall clear vegetation away from its distribution lines at least once every four years which may include cutting down and removing vegetation from a Duke Energy Ohio corridor when Duke Energy Ohio has the legal right to do so. The goal shall be to help maintain and improve safe and reliable electric service by limiting

or eliminating the possibility of contact by vegetation which has grown towards the overhead distribution lines.

Transmission Clearing Cycle – Duke Energy Ohio shall clear vegetation away from its transmission lines (69KV and above) at least once every six years which may include cutting down and removing vegetation from a Duke Energy Ohio corridor when Duke Energy Ohio has the legal right to do so. The goal shall be to help maintain and improve safe and reliable electric service by limiting or eliminating the possibility of contact by vegetation which has grown towards the overhead transmission lines.

Minimum Distribution Line Clearances

- For any two phase or three phase primary distribution line, vegetation shall be no closer than ten feet to an energized conductor when the clearing is completed. In addition, Duke Energy Ohio shall remove any "unsuitable" branch above the distribution line even though it is located more than ten feet away from an energized conductor. An "unsuitable" branch above the distribution line includes one which is either weak, diseased or decaying, or is part of a tree which is.
- For any single phase primary distribution line, vegetation shall be no closer than
 ten feet to an energized conductor when the clearing is completed. In addition,
 Duke Energy Ohio shall remove any branch above the distribution line even
 though it is located more than ten feet away from an energized conductor if it is
 within an area 15 feet from the energized conductor measured at a 45 degree
 angle.
- For any open wire secondary distribution line (without a primary distribution line and excluding a service drop), vegetation shall be no closer than five feet to an energized conductor when the clearing is completed.
- For any triplex or street light distribution line (excluding a service drop), vegetation shall be no closer than twelve inches to an energized conductor when the clearing is completed.
- <u>Duke Energy Ohio shall have no responsibility to clear vegetation from a service drop.</u>

Minimum Transmission Line Clearances

• For any transmission line (69kV and above), vegetation shall be no closer than fifteen feet to an energized conductor when the clearing is completed. In addition, Duke Energy Ohio shall remove any branch above the transmission line even though it is located more than fifteen feet from any energized conductor.

Minimum Transmission Line Overbuild Clearances

• For any transmission line (69KV and above) which is located above any distribution line on the same supporting structure, vegetation shall be no closer than fifteen feet to an energized conductor on either line. In addition, Duke Energy Ohio shall remove any branch above the transmission line even though it is located more than fifteen feet from any energized conductor.

(f) Right-of-way vegetation management

Distribution Vegetation Management — Duke Energy Ohio shall perform vegetation line elearing on distribution circuits at least once every four years. The goal shall be to help provide maintain and improve safe and reliable electric service by limiting contact between vegetation and power lines.

Transmission Vegetation Management Duke Energy Ohio shall provide vegetation line clearing on transmission circuits at least once every six years. The goal shall be to help provide maintain and improve safe and reliable electric service by limiting contact between vegetation and power lines.

For two phase and three phase primary lines, side clearances shall be at least ten feet from tree branches to nearest conductor. Duke Energy Ohio shall remove unsuitable overhanging/encroaching limbs/branches above the conductor. Unsuitable overhanging/encroaching limbs/branches includes limbs that are smaller diameter, weak, diseased, or decaying, or are positioned in a horizontal manner. Mature, well-established hardwood trees with structurally sound overhanging limbs or branches greater than six inches diameter may remain. At least Ten feet clearance shall be obtained from the lowest conductor to the nearest vegetation for trees underneath the primary.

For transmission lines 69kV and above, side clearances should provide a minimum of fifteen feet clearance from the tree branches to the nearest conductor. Duke Energy Ohio shall remove overhanging or encroaching branches above the conductor. For trees underneath the primary, Duke Energy Ohio shall maintain a fifteen feet minimum clearance from the lowest conductor to the nearest vegetation.

For over builds, where there are transmission circuits on the same structure as the distribution circuits, the circuits shall be trimmed to fifteen feet clearance from the tree branches to the nearest conductor of each circuit.

For single phase lines, side clearances shall be <u>provided</u> ten feet clearance from the tree branches to the nearest conductor. For overhang on a single phase line, all live branches above the conductors shall be removed to a minimum height of fifteen feet above the nearest conductor, and at a 45 degree angle. Duke Energy Ohio shall remove all branches that will could potentially become overhang and lighten up remaining overhang and remove all dead and structurally weak branches overhanging any primary voltages. Underneath the primary, Duke Energy Ohio shall maintain at least a ten foot clearance from the lowest conductor to the nearest vegetation.

For open wire secondary (without primary), open wire secondaries shall be pruned to obtain a minimum of five feet of clearance around the conductors. Other secondaries and (excluding service drops) shall be pruned to remove any obvious line damaging limbs. These would be limbs of a size substantial enough that through continued rubbing or pressure due to weight will likely lead to service interruptions.

For open wire or triplex services, and street lighting, all service and street light wires shall have a twelve inch swing clearance to move without obstruction. Any limbs large enough to create pressure on these conductors, such that the conductor is pushed out of normal "sag" configuration, shall be removed back to qualified lateral.

All vines are to be cut down from all electric poles and guy wires. Vines are to be cleared at least ten feet off the ground and stump chemically treated.

Special clearances: Down, span, and other guys shall be free of weight, strain, or displacement because of pressure caused by contact with tree parts, particularly of fast growing trees. Vines shall be removed from guys and poles. Working clearance from trees shall be obtained around transformers, cross arms, and risers. In addition, to the amount of separation between conductors and trees specified above, allowance shall be made for wire sag and horizontal displacement due to weather extremes and high winds, maximum of wire sag and sway occurs at span centers. All tree pruning and removal should be done accordingly.

Poles with switching mechanisms, transformers, or other mechanical equipment for the electric system installed in the right of way or that are not accessible by bucket truck shall be cleared from ground to sky to a minimum ten foot radius.

Leaning, weakened, or dead trees outside of the clearance requirements, which pose an imminent threat to the adjacent electric equipment, shall be identified by the Contractor and brought to the Duke Forester's attention. The Duke Forester may authorize the removal of such trees on a time and material basis but in the absence of a legal right to remove and excluding an emergency situation, no removal may take place until Contractor has contacted and received approval from the property owner or agent to remove such trees.

When performing routine circuit line clearing, all unsuitable trees twelve inches diameter breast height (DBH) or less with the trunk within ten feet of the conductor shall be removed where permissible by the property owner or Townshipbut in the absence of a legal right to remove, and excluding an emergency situation, no removal may take place until Contractor has contracted and received approval from the property owner or agent to remove such tress. Removal of trees greater than twelve inches DBH must be approved by a Duke Forester prior to beginning the work. Removal of all trees with the trunk more than ten feet from the conductor should be approved by a Duke Energy Forester prior to the beginning the work. In the absence of a legal right to remove, and excluding an emergency situation, aA signed permission notice must be obtained from the property owner or their agent prior to removing such trees or brush. Removals of secondary and service wires should not be performed unless there are extenuating circumstances that are approved by the Duke Energy Forester prior to beginning the work. In most cases, on secondary and service wires customers should be informed that they may request the temporary disconnection of the conductor so the customer can then make arrangements for the tree's removal. Contractor shall utilize the most efficient and cost effective methods available to perform the removals including, but not limited to; cutting, mowing, hand cutting, and chemical applications. All stumps from downed trees shall be treated with herbicides where applicable and possible.

(g) Substations

All Duke Energy safety rules shall be observed when entering any substation:

Appropriate Personal Protective Equipment

Minimum Approach Distance

Personal Protective Grounds

Special Precautionary Techniques

Environmental Rules and Regulations

Station Visual Inspection

Substation visual inspections shall be performed once a month. These visual inspections and recorded readings can help indicate the need for maintenance on a piece of equipment, reasons for unplanned outages, the presence of unbalanced or overloaded circuits, and the presence of potentially dangerous situations. Bus structure, circuit breakers, transformers, the control building, and the general yard are specific items that shall be covered under the station visual inspection.

Visual inspections of the bus structure and the equipment mounted in the structure are performed every time the substation is entered. When performing the inspection, items or conditions that appear abnormal should be closely inspected, such as a sudden change in color on the bus structure which could indicate a spot where flashing has occurred or where overheating has occurred. The connection points and lines of a static line shall be visually checked for damage. Insulators, bushings, and arresters are checked for breakage, cracking or

discoloration. Air break, load break or disconnect switches are visually inspected to ensure that they are properly seated if closed and that padlocks are in place and locked. Wave traps, coupling capacitor transformers, potential transformers, fault bus and other equipment mounted on the bus structure shall be checked for signs of overheating, loose connections, vandalism, corrosion, dirt, and lightning strikes. Steel structures are also inspected for signs of excessive rust, cracks, excessive vibration and debris.

Visual inspections on circuit breakers will vary depending on the type/model of the circuit breaker. The overall appearance of the circuit breaker shall be visually checked for anything abnormal such as cracks, chips, or oil leaks. High/low gas pressures and temperatures, air pressure, oil level, counter numbers, elapsed time readings on the compressors, and compressor oil level are all checked and recorded. The semaphore indications shall also be checked to ensure true circuit breaker status.

The overall appearance of the transformer shall be visually checked for anything abnormal such as oil leaks, fans and pumps not operating, and bushings that are cracked, chipped, or leaking. The main tank and load tap changer liquid temperatures and winding temperatures are checked and recorded. Lightning arresters are also checked and the counters are recorded if applicable. The load tap changer compartment and controls are checked for signs of damage and correct automatic operation. The Mulsifyre® system, a high velocity water spray system, and nitrogen supplies are checked and valves are opened to ensure the system is in a state of readiness.

The yard shall be visually inspected for damage and deterioration from vandalism, accidents. The general appearance of the yard shall be checked for excessive vegetation and equipment appearance. The yard lights shall be visually checked and any bulbs that are blown are replaced. The bottom of the perimeter fence shall be checked for excessive height above ground.

Equipment in control buildings shall be visually inspected and readings recorded. An operator shall visually check all relays for targets and records information and resets targets. This person shall also ensure that primary relay and backup relay indicating lights are lit and checks the remainder of indicating lights to ensure they agree with equipment status. The annunciator panel shall be tested to ensure all lamps are operational and alarm cutout switches closed unless tagged. The control panel switches are checked to ensure they are in the proper position. The operator shall also change charts and records date, time, and initials the chart where applicable. Digital fault recorder targets shall be checked and reset as necessary. The fault bus shall be tested to ensure the voltage level is approximately 15 volts. Power station panels shall be checked for tripped breakers or breakers placed in the wrong position. Station power supplies are checked to ensure both the normal and reserve power sources are available and the DC control panels shall be checked to ensure switches are in the proper position. The substation batteries and battery charger shall be visually inspected. Fire extinguishers shall be visually inspected to ensure acceptable pressure in the tank

Infrared Inspection

An infrared scan of substation equipment shall be performed annually. All outdoor substation equipment shall be scanned using suitable infrared detection equipment to check for signs of abnormal heating or below normal expected temperature. Abnormal heating may be caused by high resistance connections, excessive loading, restricted air or oil flow, or deteriorated equipment. Below normal temperatures can be caused by unbalanced loading, restricted air or oil flow, or device malfunction.

Bus conductor, connectors, fittings, fuses, bushings, lightning arresters, switches, transformer case and auxiliary equipment, circuit breaker interrupter tanks, line neutral and static connections and power cable terminations shall be scanned for abnormalities. Control and relay cabinet doors shall be opened to scan circuit breakers, contactors, control wiring, fuses, heaters, relay terminals, and terminal blocks. Station batteries shall be checked for uneven heating, high resistance connections, and contamination losses. The thermography and field repair records shall be reviewed and analyzed to determine cause.

Power Factor Testing

Power factor tests shall be performed on a time period from 2-9 years based on station equipment type/size/condition/criticality. Power factor tests establish baseline readings on new equipment for future reference when tests are performed to evaluate the integrity of equipment at later date.

Refer to Exhibit E for power factor intervals.

The guidelines set forth in the Power Factor Test Set instructions are followed. The readings from the Power Factor Test Set shall then be recorded for future assessment or compare readings to evaluate the piece of equipment being tested.

Dissolved Gas Analysis Testing – Transformer and Transformer Load Tap Changer Oil Sampling

A dissolved gas analysis test shall be performed on transformers with a 3-phase rating 7.5~MVA-49.9~MVA once per year. A dissolved gas analysis test shall be performed on transformers with a 3-phase rating 50 MVA and larger twice per year. The dissolved gas analysis determines the gas levels within the insulating oil and overall health of the transformer.

A dissolved gas analysis test shall be performed on transformer load tap changers once per year for GE: LRT200-2 w/fiberglass drum, LRT300 and LRT500, Reinhausen: RMV-A and RMV-II, Westinghouse: UVT. A dissolved gas analysis test shall be performed on transformer load tap changers twice per year for ABB: UZE w/filter, Allis Chalmers: SJ5 w/filter and TLF w/filter, ASEA/Waukesha: UZD w/filter, GE: LRT48 w/filter, LR65 w/filter, LRT65 w/filter, LRT68 w/filter, LRT72 w/filter, LR83 w/filter, LRS83 w/filter, and LRT83 w/filter, McGraw Edison: V2PA, Westinghouse: UNR w/filter, URS w/filter, URT w/filter, and UTS w/filter, also twice per year for ABB: UZE no filter, Allis Chalmers/Siemens: TLB w/filter and TLH-21 w/filter, Allis Chalmers: SJ5 no filter and TLF no filter, ASEA/Waukesha: UZD no filter, Federal Pacific: TC546 w/filter, TC525 w/filter, and TC25E w/filter, GE: LRT200 w/paper drum, LRT48 no filter, LR65 no filter, LRT65 no filter, LRT68 no filter, LRT72 no filter, LR83 no filter, LRS83 no filter, and LRT83 no filter, McGraw Edison: 394

w/filter, 550 w/filter, 550B w/filter, and 550C w/filter, Moloney: T-MB w/filter, TC-MA w/filter, TC-MB w/filter, TC-MC w/filter, Westinghouse: UNR no filter, URS no filter, URT no filter, UTS no filter, and UTT w/filter. A dissolved gas analysis test shall be performed on transformer load tap changers three times per year for Allis Chalmers/Siemans: TLB no filter and TLH-21 no filter, Federal Pacific: TC546 no filter, and TC25E no filter, McGraw Edison: 394 no filter, 550 no filter, 550B no filter, and 550C no filter, Moloney: T-MB no filter, TC-MA no filter, TC-MB no filter, TC-MC no filter, and Westinghouse: UTT no filter. The dissolved gas analysis determines the gas levels within the insulating oil and overall health of the load tap changer.

Circuit Breaker Inspection

A circuit breaker inspection shall be performed every 3 years for all air, vacuum, gas, and oil circuit breakers. The purpose of this inspection is to provide a non-intrusive method of evaluating the circuit breaker to ensure its integrity.

Metal Enclosed Capacitor Assemblies

Metal enclosed capacitor assemblies without unbalanced protection shall be internally inspected each year and every 3 years for metal enclosed capacitor assemblies with unbalanced protection. The capacitors within enclosures shall be inspected to ensure equipment is functioning properly.

Capacitors must be de-energized for a minimum of five minutes before they are grounded. Duke Energy Ohio shall check isolation and check voltage and ground after five minutes. Duke Energy Ohio shall check all electrical connections, check capacitor fuses and replace blown fuses after checking capacitor with capacitor tester and check fuse clips and all ground connections. Duke Energy Ohio shall inspect capacitors for any damage or leaking cases, broken or cracked bushings, and replace if necessary. Duke Energy Ohio shall clean and inspect insulators for damage and repair/replace if necessary. If isolation permits, clean and lubricate disconnect switch and ground disconnect if equipped. Duke Energy Ohio shall clean and inspect neutral pot for damage and repair/replace if necessary and clean and inspect capacitor structure or enclosure for damage and clear isolation and return equipment to service.

Planned Maintenance

Planned Maintenance work (i.e. MAXIMO Work Type "PM") shall be completed and the associated MAXIMO work order closed within the following time interval from the date on which the work order was generated:

PM Frequency/Interval ¹	Work Order Should Be Completed Within
1 Week or Less	1 Week
1 Month	Within the calendar month in which work order generated.
3 Months	30 Days
6 Months	60 Days
1 Year	90 Days
3 Years	1 Year
6 Years or Greater	2 Years
Relays (all frequencies)	12 months after the due date in the Aspen relay database.

Note 1: For PM frequencies/intervals that fall between those shown in this table, the next lower interval from this table will apply.

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Case No(s). 16-0915-EL-ESS

Summary: Application Application of Duke Energy Ohio, Inc., for Approval of Revised Paragraph (f) of its Programs for Inspection, Maintenance, Repair and Replacement of Distribution and Transmission Lines electronically filed by Dianne Kuhnell on behalf of Duke Energy Ohio, Inc. and Spiller, Amy B. and Watts, Elizabeth H.