

NEPR

Received:

Distribution Substation Name	Overall Health Score	Site Access/Civil	Fence	Yard	Structural and Foundations	Anchors	Grounding	Insulation	Hardware	Conductor	Disconnect Switches	Instrument Transformers & Lightning Arresters	Power Transformers	Circuit Breakers	Substation DC System	AC Station Service Systems	Protection Building	Protection/Telecommunication and SCADA	Documentation (Drawings, Settings, etc.)	Protection and Control	SCADA	Telecommunications	Stock and Material	
Inspection 1																								
Inspection 2																								
Inspection 3																								
Inspection 4																								
Inspection 5																								
Inspection 6																								
Inspection 7																								
Inspection 8																								
Inspection 9																								
Inspection 10																								
Inspection 11																								
Inspection 12																								

APR 23, 2021

Substation Name:	Inspection 1	Date:	
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1.1. Available S&L Report: YES NO

Report Scores:

Overall: _____	Overall Access Road Condition: _____	Local Control Cabinet Condition: _____
Overall Bus Structure Condition: _____	Overall Bus Structure Condition: _____	Overall Entry Gate Condition: _____
Overall Perimeter Fence Condition: _____	Overall Transformers Condition: _____	Gas Insulated Substation Condition: _____
Overall Yard Condition: _____	Overall Grade Condition: _____	

1.2. Health Condition (Health) - Point Scoring System:

Score Value	Health Condition
4	System like new (replaced or refurbished within the last five years)
3	System has been maintained with general operations and maintenance on a routine basis, no major issues noted
2	Deficiency were noted or components were out of service
1	Major issues noted causing a safety, reliability or unit output issue
0	End of life or not operational

1.3. Repair Priority Code

HIGH	MEDIUM	LOW
< 30 days	< 12 months	> 12 months

Assessment:

Group	Health (Score)	Comments
Site Access/Civil		
Fence		
Yard		
Structural and Foundations		
Anchors		
Grounding		
Insulation		
Hardware		
Conductor		
Disconnect Switches		
Instrument Transformers & Lightning Arresters		
Power Transformers		
Circuit Breakers		
Substation DC System		
AC Station Service System		
Protection Building		
Protection/Telecommunication and SCADA Panels		
Documentation (Drawings, Settings, etc.)		
Protection and Control		
SCADA		
Telecommunications		
Stock and Material		
Substation Overall health Score		

Safety Concerns – Red Flags:

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Substation Name:	Inspection 2	Date:	
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1.1. Available S&L Report: YES NO

Report Scores:

Overall:	___	Overall Access Road Condition:	___	Local Control Cabinet Condition:	___
Overall Bus Structure Condition:	___	Overall Bus Structure Condition:	___	Overall Entry Gate Condition:	___
Overall Perimeter Fence Condition:	___	Overall Transformers Condition:	___	Gas Insulated Substation Condition:	___
Overall Yard Condition:	___	Overall Grade Condition:	___		

1.2. Health Condition (Health) - Point Scoring System:

Score Value	Health Condition
4	System like new (replaced or refurbished within the last five years)
3	System has been maintained with general operations and maintenance on a routine basis, no major issues noted
2	Deficiency were noted or components were out of service
1	Major issues noted causing a safety, reliability or unit output issue
0	End of life or not operational

1.3. Repair Priority Code

HIGH	MEDIUM	LOW
< 30 days	< 12 months	> 12 months

Assessment:

Group	Health (Score)	Comments
Site Access/Civil		
Fence		
Yard		
Structural and Foundations		
Anchors		
Grounding		
Insulation		
Hardware		
Conductor		
Disconnect Switches		
Instrument Transformers & Lightning Arresters		
Power Transformers		
Circuit Breakers		
Substation DC System		
AC Station Service System		
Protection Building		
Protection/Telecommunication and SCADA Panels		
Documentation (Drawings, Settings, etc.)		
Protection and Control		
SCADA		
Telecommunications		
Stock and Material		
Substation Overall health Score		

Safety Concerns – Red Flags:

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Substation Name:	Inspection 3	Date:	
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1.1. Available S&L Report: YES NO

Report Scores:

Overall:	_____	Overall Access Road Condition:	_____	Local Control Cabinet Condition:	_____
Overall Bus Structure Condition:	_____	Overall Bus Structure Condition:	_____	Overall Entry Gate Condition:	_____
Overall Perimeter Fence Condition:	_____	Overall Transformers Condition:	_____	Gas Insulated Substation Condition:	_____
Overall Yard Condition:	_____	Overall Grade Condition:	_____		

1.2. Health Condition (Health) - Point Scoring System:

Score Value	Health Condition
4	System like new (replaced or refurbished within the last five years)
3	System has been maintained with general operations and maintenance on a routine basis, no major issues noted
2	Deficiency were noted or components were out of service
1	Major issues noted causing a safety, reliability or unit output issue
0	End of life or not operational

1.3. Repair Priority Code

HIGH	MEDIUM	LOW
< 30 days	< 12 months	> 12 months

Assessment:

Group	Health (Score)	Comments
Site Access/Civil		
Fence		
Yard		
Structural and Foundations		
Anchors		
Grounding		
Insulation		
Hardware		
Conductor		
Disconnect Switches		
Instrument Transformers & Lightning Arresters		
Power Transformers		
Circuit Breakers		
Substation DC System		
AC Station Service System		
Protection Building		
Protection/Telecommunication and SCADA Panels		
Documentation (Drawings, Settings, etc.)		
Protection and Control		
SCADA		
Telecommunications		
Stock and Material		
Substation Overall health Score		

Safety Concerns – Red Flags:

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Substation Name:	Inspection 4	Date:	
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1.1. Available S&L Report: YES NO

Report Scores:

Overall:	___	Overall Access Road Condition:	___	Local Control Cabinet Condition:	___
Overall Bus Structure Condition:	___	Overall Bus Structure Condition:	___	Overall Entry Gate Condition:	___
Overall Perimeter Fence Condition:	___	Overall Transformers Condition:	___	Gas Insulated Substation Condition:	___
Overall Yard Condition:	___	Overall Grade Condition:	___		

1.2. Health Condition (Health) - Point Scoring System:

Score Value	Health Condition
4	System like new (replaced or refurbished within the last five years)
3	System has been maintained with general operations and maintenance on a routine basis, no major issues noted
2	Deficiency were noted or components were out of service
1	Major issues noted causing a safety, reliability or unit output issue
0	End of life or not operational

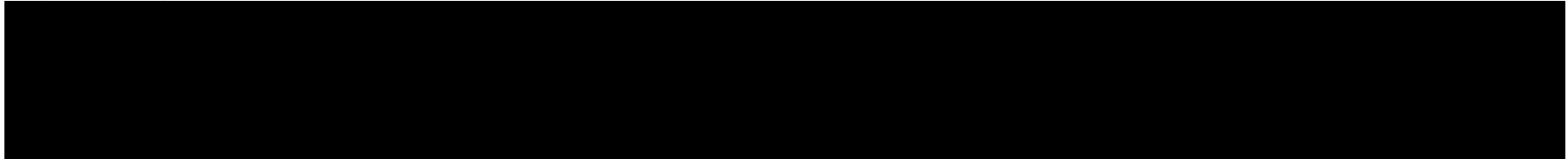
1.3. Repair Priority Code

HIGH	MEDIUM	LOW
< 30 days	< 12 months	> 12 months

Assessment:

Group	Health (Score)	Comments
Site Access/Civil		
Fence		
Yard		
Structural and Foundations		
Anchors		
Grounding		
Insulation		
Hardware		
Conductor		
Disconnect Switches		
Instrument Transformers & Lightning Arresters		
Power Transformers		
Circuit Breakers		
Substation DC System		
AC Station Service System		
Protection Building		
Protection/Telecommunication and SCADA Panels		
Documentation (Drawings, Settings, etc.)		
Protection and Control		
SCADA		
Telecommunications		
Stock and Material		
Substation Overall health Score		

Safety Concerns – Red Flags:



Substation Name:	Inspection 5	Date:	
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1.1. Available S&L Report: YES NO

Report Scores:

Overall: _____	Overall Access Road Condition: _____	Local Control Cabinet Condition: _____
Overall Bus Structure Condition: _____	Overall Bus Structure Condition: _____	Overall Entry Gate Condition: _____
Overall Perimeter Fence Condition: _____	Overall Transformers Condition: _____	Gas Insulated Substation Condition: _____
Overall Yard Condition: _____	Overall Grade Condition: _____	

1.2. Health Condition (Health) - Point Scoring System:

Score Value	Health Condition
4	System like new (replaced or refurbished within the last five years)
3	System has been maintained with general operations and maintenance on a routine basis, no major issues noted
2	Deficiency were noted or components were out of service
1	Major issues noted causing a safety, reliability or unit output issue
0	End of life or not operational

1.3. Repair Priority Code

HIGH	MEDIUM	LOW
< 30 days	< 12 months	> 12 months

Assessment:

Group	Health (Score)	Comments
Site Access/Civil		
Fence		
Yard		
Structural and Foundations		
Anchors		
Grounding		
Insulation		
Hardware		
Conductor		
Disconnect Switches		
Instrument Transformers & Lightning Arresters		
Power Transformers		
Circuit Breakers		
Substation DC System		
AC Station Service System		
Protection Building		
Protection/Telecommunication and SCADA Panels		
Documentation (Drawings, Settings, etc.)		
Protection and Control		
SCADA		
Telecommunications		
Stock and Material		
Substation Overall health Score		

Safety Concerns – Red Flags:

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Substation Name:	Inspection 6	Date:	
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1.1. Available S&L Report: YES NO

Report Scores:

Overall:	_____	Overall Access Road Condition:	_____	Local Control Cabinet Condition:	_____
Overall Bus Structure Condition:	_____	Overall Bus Structure Condition:	_____	Overall Entry Gate Condition:	_____
Overall Perimeter Fence Condition:	_____	Overall Transformers Condition:	_____	Gas Insulated Substation Condition:	_____
Overall Yard Condition:	_____	Overall Grade Condition:	_____		

1.2. Health Condition (Health) - Point Scoring System:

Score Value	Health Condition
4	System like new (replaced or refurbished within the last five years)
3	System has been maintained with general operations and maintenance on a routine basis, no major issues noted
2	Deficiency were noted or components were out of service
1	Major issues noted causing a safety, reliability or unit output issue
0	End of life or not operational

1.3. Repair Priority Code

HIGH	MEDIUM	LOW
< 30 days	< 12 months	> 12 months

Assessment:

Group	Health (Score)	Comments
Site Access/Civil		
Fence		
Yard		
Structural and Foundations		
Anchors		
Grounding		
Insulation		
Hardware		
Conductor		
Disconnect Switches		
Instrument Transformers & Lightning Arresters		
Power Transformers		
Circuit Breakers		
Substation DC System		
AC Station Service System		
Protection Building		
Protection/Telecommunication and SCADA Panels		
Documentation (Drawings, Settings, etc.)		
Protection and Control		
SCADA		
Telecommunications		
Stock and Material		
Substation Overall health Score		

Safety Concerns – Red Flags:

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Substation Name:	Inspection 7	Date:	
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1.1. Available S&L Report: YES NO

Report Scores:

Overall:	_____	Overall Access Road Condition:	_____	Local Control Cabinet Condition:	_____
Overall Bus Structure Condition:	_____	Overall Bus Structure Condition:	_____	Overall Entry Gate Condition:	_____
Overall Perimeter Fence Condition:	_____	Overall Transformers Condition:	_____	Gas Insulated Substation Condition:	_____
Overall Yard Condition:	_____	Overall Grade Condition:	_____		

1.2. Health Condition (Health) - Point Scoring System:

Score Value	Health Condition
4	System like new (replaced or refurbished within the last five years)
3	System has been maintained with general operations and maintenance on a routine basis, no major issues noted
2	Deficiency were noted or components were out of service
1	Major issues noted causing a safety, reliability or unit output issue
0	End of life or not operational

1.3. Repair Priority Code

HIGH	MEDIUM	LOW
< 30 days	< 12 months	> 12 months

Assessment:

Group	Health (Score)	Comments
Site Access/Civil		
Fence		
Yard		
Structural and Foundations		
Anchors		
Grounding		
Insulation		
Hardware		
Conductor		
Disconnect Switches		
Instrument Transformers & Lightning Arresters		
Power Transformers		
Circuit Breakers		
Substation DC System		
AC Station Service System		
Protection Building		
Protection/Telecommunication and SCADA Panels		
Documentation (Drawings, Settings, etc.)		
Protection and Control		
SCADA		
Telecommunications		
Stock and Material		
Substation Overall health Score		

Safety Concerns – Red Flags:

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Substation Name:	Inspection 8	Date:	
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1.1. Available S&L Report: YES NO

Report Scores:

Overall: _____	Overall Access Road Condition: _____	Local Control Cabinet Condition: _____
Overall Bus Structure Condition: _____	Overall Bus Structure Condition: _____	Overall Entry Gate Condition: _____
Overall Perimeter Fence Condition: _____	Overall Transformers Condition: _____	Gas Insulated Substation Condition: _____
Overall Yard Condition: _____	Overall Grade Condition: _____	

1.2. Health Condition (Health) - Point Scoring System:

Score Value	Health Condition
4	System like new (replaced or refurbished within the last five years)
3	System has been maintained with general operations and maintenance on a routine basis, no major issues noted
2	Deficiency were noted or components were out of service
1	Major issues noted causing a safety, reliability or unit output issue
0	End of life or not operational

1.3. Repair Priority Code

HIGH	MEDIUM	LOW
< 30 days	< 12 months	> 12 months

Assessment:

Group	Health (Score)	Comments
Site Access/Civil		
Fence		
Yard		
Structural and Foundations		
Anchors		
Grounding		
Insulation		
Hardware		
Conductor		
Disconnect Switches		
Instrument Transformers & Lightning Arresters		
Power Transformers		
Circuit Breakers		
Substation DC System		
AC Station Service System		
Protection Building		
Protection/Telecommunication and SCADA Panels		
Documentation (Drawings, Settings, etc.)		
Protection and Control		
SCADA		
Telecommunications		
Stock and Material		
Substation Overall health Score		

Safety Concerns – Red Flags:

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Substation Name:	Inspection 9	Date:	
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1.1. Available S&L Report: YES NO

Report Scores:

Overall: _____	Overall Access Road Condition: _____	Local Control Cabinet Condition: _____
Overall Bus Structure Condition: _____	Overall Bus Structure Condition: _____	Overall Entry Gate Condition: _____
Overall Perimeter Fence Condition: _____	Overall Transformers Condition: _____	Gas Insulated Substation Condition: _____
Overall Yard Condition: _____	Overall Grade Condition: _____	

1.2. Health Condition (Health) - Point Scoring System:

Score Value	Health Condition
4	System like new (replaced or refurbished within the last five years)
3	System has been maintained with general operations and maintenance on a routine basis, no major issues noted
2	Deficiency were noted or components were out of service
1	Major issues noted causing a safety, reliability or unit output issue
0	End of life or not operational

1.3. Repair Priority Code

HIGH	MEDIUM	LOW
< 30 days	< 12 months	> 12 months

Assessment:

Group	Health (Score)	Comments
Site Access/Civil		
Fence		
Yard		
Structural and Foundations		
Anchors		
Grounding		
Insulation		
Hardware		
Conductor		
Disconnect Switches		
Instrument Transformers & Lightning Arresters		
Power Transformers		
Circuit Breakers		
Substation DC System		
AC Station Service System		
Protection Building		
Protection/Telecommunication and SCADA Panels		
Documentation (Drawings, Settings, etc.)		
Protection and Control		
SCADA		
Telecommunications		
Stock and Material		
Substation Overall health Score		

Safety Concerns – Red Flags:

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Substation Name:	Inspection 10	Date:	
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1.1. Available S&L Report: YES NO

Report Scores:

Overall: _____	Overall Access Road Condition: _____	Local Control Cabinet Condition: _____
Overall Bus Structure Condition: _____	Overall Bus Structure Condition: _____	Overall Entry Gate Condition: _____
Overall Perimeter Fence Condition: _____	Overall Transformers Condition: _____	Gas Insulated Substation Condition: _____
Overall Yard Condition: _____	Overall Grade Condition: _____	

1.2. Health Condition (Health) - Point Scoring System:

Score Value	Health Condition
4	System like new (replaced or refurbished within the last five years)
3	System has been maintained with general operations and maintenance on a routine basis, no major issues noted
2	Deficiency were noted or components were out of service
1	Major issues noted causing a safety, reliability or unit output issue
0	End of life or not operational

1.3. Repair Priority Code

HIGH	MEDIUM	LOW
< 30 days	< 12 months	> 12 months

Assessment:

Group	Health (Score)	Comments
Site Access/Civil		
Fence		
Yard		
Structural and Foundations		
Anchors		
Grounding		
Insulation		
Hardware		
Conductor		
Disconnect Switches		
Instrument Transformers & Lightning Arresters		
Power Transformers		
Circuit Breakers		
Substation DC System		
AC Station Service System		
Protection Building		
Protection/Telecommunication and SCADA Panels		
Documentation (Drawings, Settings, etc.)		
Protection and Control		
SCADA		
Telecommunications		
Stock and Material		
Substation Overall health Score		

Safety Concerns – Red Flags:

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Substation Name:	Inspection 11	Date:	
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1.1. Available S&L Report: YES NO

Report Scores:

Overall:	_____	Overall Access Road Condition:	_____	Local Control Cabinet Condition:	_____
Overall Bus Structure Condition:	_____	Overall Bus Structure Condition:	_____	Overall Entry Gate Condition:	_____
Overall Perimeter Fence Condition:	_____	Overall Transformers Condition:	_____	Gas Insulated Substation Condition:	_____
Overall Yard Condition:	_____	Overall Grade Condition:	_____		

1.2. Health Condition (Health) - Point Scoring System:

Score Value	Health Condition
4	System like new (replaced or refurbished within the last five years)
3	System has been maintained with general operations and maintenance on a routine basis, no major issues noted
2	Deficiency were noted or components were out of service
1	Major issues noted causing a safety, reliability or unit output issue
0	End of life or not operational

1.3. Repair Priority Code

HIGH	MEDIUM	LOW
< 30 days	< 12 months	> 12 months

Assessment:

Group	Health (Score)	Comments
Site Access/Civil		
Fence		
Yard		
Structural and Foundations		
Anchors		
Grounding		
Insulation		
Hardware		
Conductor		
Disconnect Switches		
Instrument Transformers & Lightning Arresters		
Power Transformers		
Circuit Breakers		
Substation DC System		
AC Station Service System		
Protection Building		
Protection/Telecommunication and SCADA Panels		
Documentation (Drawings, Settings, etc.)		
Protection and Control		
SCADA		
Telecommunications		
Stock and Material		
Substation Overall health Score		

Safety Concerns – Red Flags:

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Substation Name:	Inspection 12	Date:	
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1.1. Available S&L Report: YES NO

Report Scores:

Overall: _____	Overall Access Road Condition: _____	Local Control Cabinet Condition: _____
Overall Bus Structure Condition: _____	Overall Bus Structure Condition: _____	Overall Entry Gate Condition: _____
Overall Perimeter Fence Condition: _____	Overall Transformers Condition: _____	Gas Insulated Substation Condition: _____
Overall Yard Condition: _____	Overall Grade Condition: _____	

1.2. Health Condition (Health) - Point Scoring System:

Score Value	Health Condition
4	System like new (replaced or refurbished within the last five years)
3	System has been maintained with general operations and maintenance on a routine basis, no major issues noted
2	Deficiency were noted or components were out of service
1	Major issues noted causing a safety, reliability or unit output issue
0	End of life or not operational

1.3. Repair Priority Code

HIGH	MEDIUM	LOW
< 30 days	< 12 months	> 12 months

Assessment:

Group	Health (Score)	Comments
Site Access/Civil		
Fence		
Yard		
Structural and Foundations		
Anchors		
Grounding		
Insulation		
Hardware		
Conductor		
Disconnect Switches		
Instrument Transformers & Lightning Arresters		
Power Transformers		
Circuit Breakers		
Substation DC System		
AC Station Service System		
Protection Building		
Protection/Telecommunication and SCADA Panels		
Documentation (Drawings, Settings, etc.)		
Protection and Control		
SCADA		
Telecommunications		
Stock and Material		
Substation Overall health Score		

Safety Concerns – Red Flags:

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