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|  | Eingangsvermerk EVIP: | | | | | | | | | |  | vom: | | | | | | | | | | | | | | | | | | | |  | | Ident. Nr. / Ort: | | | | | | | | | | | | | | | |  |
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|  | Protokoll-Nr.: | | | | | | | | | |  | Anlagenteil: | | | | | | | | | | | | | | | | | | | |  | | Nr.: | | | | | | | | | | | | | | | |  |
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| **1. Art der Prüfung** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | Erstprüfung | | | | | | | | | | | | | | Wiederholungsprüfung | | | | | | | | | | | | |  | | | | |  | | | | | | | | | | | | | | | | | |
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| **2. Erdungsanlage** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | Oberflächenerder (Ring-, Strahlenerder) | | | | | | | | | | | | | | Tiefenerder | | | | | | | | | | | | | Fundamenterder | | | | | | | | | | | | | | | | | | | | | | |
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|  | Erdung ausgeführt nach Zeichnung Nr.: | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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|  | Erforderliche Werte:  (werden von EVIP vorgegeben) | | | | | | | | | | | *Z*E [[1]](#footnote-1) ≤ 2,67 Ω  - bei NOSPE-Netz ZE ≤ 1,2 Ω (wird explizit von EVIP vorgegeben)  - bei Nichteinhaltung sind Ersatzmaßnahmen vorzunehmen | | | | | | | | | | | | | | *R*A [[2]](#footnote-2) ≤ 2 … 20 Ω 🡪  - höhere Werte sind mit  EVIP abzustimmen | | | | | | | | | | | | | | | „niederohmig wirksam“ | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **3. Messgeräte** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | Messung/Prüfung der/des Einzelerders: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | Fabrikat: | | | | | | | | | |  | Typ: | | | | | | | | | | | | | | | | | | | |  | | ID: | | | | | | | | | | | | | | | |  |
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|  | Messung der Erdungsimpedanz (System): | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | Fabrikat: | | | | | | | | | |  | Typ: | | | | | | | | | | | | | | | | | | | |  | | ID: | | | | | | | | | | | | | | | |  |
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| **4. Messungen** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | Datum: | | | | | | | | | |  | Uhrzeit: | | | | | | | | | | | | | | | | | | | |  | |  | | | | | | | | | | | | | | | |  |
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|  | Bodenzustand: | | | | | | | | | | | | | | | | |  | | | | Bodenart: | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |
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|  | Messmethode für die Messung der Erdungsimpedanz: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | |
|  | Erdungsmessbrücke | | | | | | | | | | | | | Strom-Spannungs-Messung (mit EVIP abgestimmte Nachweise liegen bei) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | |
|  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **4.1 Hilfsstromkreise für Strom-Spannungs-Messung** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | Spannungsquelle: | | | | | | | | | | | | | | | | |  | | | | Hilfserder: | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |
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|  | Einspeisestelle in die Erdungsanlage: | | | | | | | | | | | | | | | | |  | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |
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| **4.2 Messwerte** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | Ausbreitungswiderstand/Erd-Schleifenwiderstand der Einzelerder | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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|  | Erder | |  | |  | | |  | | | | | | | |  | | | |  | | | | | | |  | | | | | | | | |  | | | | | |  | | | | |  | | | |
|  | *R*A in Ω | |  | |  | | |  | | | | | | | |  | | | |  | | | | | | |  | | | | | | | | |  | | | | | |  | | | | |  | | | |
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|  | Erdungsimpedanz *Z*E =       Ω | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | Erdungsimpedanzmessung kann entfallen, da ein „globales Erdungssystem“ vorliegt\* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | ja | | | | | | | | nein | | | | | | | |
|  |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | Daten zu Messtrassen : siehe Seite 2/2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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|  | Die ermittelten Werte genügen den Anforderungen\* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | ja | | | | | | | | | nein | | | | | | |
|  |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **5. Lageskizze der Erdungsanlage und ggf. der Messtrasse(n)/Bemerkungen als** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | |
|  | Skizze auf separatem Blatt | | | | | | Fotodokumentation | | | | | | | | | | | | weitere Unterlagen | | | | | | | | | | | | | | | | | | | | | | | | | beigefügt | | | | | | |
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| Messtrasse | | | | Abstand Messobjekt –  Hilfserder | | | | | | | | | | | Abstand  Messobjekt-Sonde | | | | | | | | | | *Z*E bzw. *R*A | | | | | | | | | | | | | | | Abweichung | | | | | | | | | | |
|  | | | | [m] | | | | | | | | | | | [m] | | | | | | | | | | [Ω] | | | | | | | | | | | | | | | [Ω] | | | | | | [%] | | | | |
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| **6. Anlagenbesichtigung\*** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  | | | | | | | | | | | | | | | | | | | | **i. O.** | | | **nicht i. O.** | | | | | | **Bemerkungen** | | | | | | | | | | | | | | | | | | | | |
|  | **Erder (bei Neuerrichtung komplett,  bei Wiederholungsprüfung nur Erdübergangsbereich)** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | Angabe des verwendeten Werkstoffes/Leitertyps/Querschnitts | | | | | | | | | | | | | | | | | | | |  | | |  | | | | | |  | | | | | | | | | | | | | | | | | | | | | |
|  | Werkstoff, Mindestmaße, Ausführung und Anordnung nach DIN EN 50522 (VDE 0101‑2) | | | | | | | | | | | | | | | | | | | |  | | |  | | | | | |  | | | | | | | | | | | | | | | | | | | | | |
|  | Korrosionszustand | | | | | | | | | | | | | | | | | | | |  | | |  | | | | | |  | | | | | | | | | | | | | | | | | | | | | |
|  | Kontrolle der Schraubverbinder | | | | | | | | | | | | | | | | | | | |  | | |  | | | | | |  | | | | | | | | | | | | | | | | | | | | | |
|  | Such-/Kontrollschachtung durchgeführt | | | | | | | | | | | | | | | | | | | | ja | | | nein | | | | | |  | | | | | | | | | | | | | | | | | | | | | |
|  |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | **Erdungsleitung** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | Angabe des verwendeten Werkstoffes/Leitertyps/ Querschnitts | | | | | | | | | | | | | | | | | | | |  | | |  | | | | | |  | | | | | | | | | | | | | | | | | | | | |
|  | Werkstoff, Mindestmaße, Ausführung nach DIN EN 50522  (VDE 0101-2) | | | | | | | | | | | | | | | | | | | |  | | |  | | | | | |  | | | | | | | | | | | | | | | | | | | | |
|  | Korrosionszustand | | | | | | | | | | | | | | | | | | | |  | | |  | | | | | |  | | | | | | | | | | | | | | | | | | | | |
|  | Kontrolle der Schraubverbinder | | | | | | | | | | | | | | | | | | | |  | | |  | | | | | |  | | | | | | | | | | | | | | | | | | | | |
|  | Bezeichnungsschilder | | | | | | | | | | | | | | | | | | | |  | | |  | | | | | |  | | | | | | | | | | | | | | | | | | | | |
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|  | **Erdungsmaßnahme** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | an Betriebsmittel/Anlagen nach DIN VDE 0141 (VDE 0141) /  DIN EN 50522 (VDE 0101-2) | | | | | | | | | | | | | | | | | | | |  | | |  | | | | | |  | | | | | | | | | | | | | | | | | | | | |
|  | Kontrolle der Schraubverbinder | | | | | | | | | | | | | | | | | | | |  | | |  | | | | | |  | | | | | | | | | | | | | | | | | | | | |
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|  | **Bestandsdokumentation in Übergabestation abgelegt** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| **7. Prüfergebnis\*** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  | unwesentliche bzw. ohne Mängel | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  | wesentliche Mängel (Überwachung und Mängelbeseitigung sind erforderlich) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  | erhebliche Mängel, führt zu: | | | | | | | | | Personengefahr | | | | | | Betriebsmittelgefährdung, und wurde bis zur Behebung stillgelegt | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | Weitere Vorgehensweise: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | Der Anlagenbetreiber ist verpflichtet, die im Rahmen der Zustandsfeststellung festgestellten Mängel unverzüglich bzw. zur  vereinbarten Frist zu beseitigen. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  | Eine Nachprüfung ist nicht erforderlich. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  | Eine Nachprüfung ist erforderlich und festgesetzt auf den: | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | |  | | | | | | | | | | | |
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|  | Hinweise/Beschreibung: | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Prüfer | | | | | |  | | | Ort der Prüfung | | | | | | | | | | | | | | | | | | | |  | | Datum | | | | | | | | | | | | | | | | | | | |
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| Unterschrift | | | | | |  | | | Firmenanschrift und Telefonnummer | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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\* zutreffendes bitte ankreuzen

1. Erdungsimpedanz (resultierender Gesamtwiderstand aller elektr. verbundenen Leiter) zur Einhaltung der maximalen Berührungsspannung von 80 V [↑](#footnote-ref-1)
2. Prüfwert für den Ausbreitungswiderstand des Einzelerders (Die Ermittlung von RA bei der Wiederholungsprüfung und Vergleich mit der Erstprüfung kann einen Hinweis auf den   
   Korrosionszustand der Anlage liefern)

   \* zutreffende bitte ankreuzen [↑](#footnote-ref-2)