

INDEX TO NRCS ENGINEERING POLICY AND TECHNOLOGY DOCUMENTS

last update: '01/10/02

| CURRENT DIRECTIVES SYSTEM |                                      |        |                  |   | FORMER DIRECTIVES SYSTEM   |  |  | NOTES  | DIST. CODE   |
|---------------------------|--------------------------------------|--------|------------------|---|--|--|--|--|--|
| PART                      | SUBJECT                              | CHPT.  | DATE             | TITLE   | ITEM   | DATE   | TITLE  |  |  |
|                           | <b>Parts 600/609 - GENERAL</b>       |        |                  |   |  |  |  |  |  |
| 600                       | Introduction                         |        |                  |   |  |  |  |  |  |
| 601                       | Authorizations                       |        |                  |   | NEM  | Mar-91   | NEM Part 501   | Policy   | F,A,E,S  |
| 602                       | Engineering Responsibilities         |        |                  |   |  |  |  |  | F,A,E,S  |
| 603                       | Safety                               |        |                  |   | NEM  | May-83   | NEM Part 503   | Policy   | F,A,E,S  |
| 604                       | Investigations, Studies, and Reports |        |                  |   | NEM<br>TR-24   | Jun-89<br>Feb-83   | NEM Part 504<br>Investigation of Structural Problems   | Policy   | F,A,E,S<br>A,S   |
| 605                       | Non-NRCS Engineering Services        |        |                  |   | NEM<br>TR-23   | Sep-97<br>Nov-64   | NEM Part 505<br>Engineering Services Contracts   | Policy   | F,A,E,S<br>A,S   |
| 606                       | Engineering Technical Materials      |        |                  |   | NEM  | Sep-97   | NEM Part 506   | Policy   | F,A,E,S  |
|                           | <b>Parts 610/619 - MANAGEMENT</b>    |        |                  |   |  |  |  |  |  |
| 610                       | Planning                             |        |                  |   | NEM<br>TR-25   | Sep-97<br>Sep-77   | NEM Part 510<br>Chapter 2  | Policy   | F,S,E,S<br>A,S   |
| 611                       | Design                               |        |                  |   | NEM<br>DN-20   | Aug-84<br>Apr-80   | NEM Part 511<br>Guide to Organization & Operation of Independent Review Boards   | Policy   | F,A,E,S<br>S   |
| 612                       | Construction                         |        |                  |   | NEM  | Dec-97   | NEM Part 512   | Policy, revision issued to FO's 7/98                                 | F,A,E,S  |
| 613                       | Operation and Maintenance            |        |                  |   |  |  |  |  |  |
|                           | <b>Parts 620/629 APPLICATIONS</b>    |        |                  |   |  |  |  |  |  |
| 620                       | Streams and Channels                 |        |                  |   | NEM<br>TR-25   | Nov-91<br>Sep-77   | NEM Part 520<br>Chapters 1 & 6   | Policy   | F,A,E,S<br>A,S   |
| 621                       | Water Quality                        |        |                  |   | NEM<br>TR-58<br>TR-72<br>TP-160<br>NHWQM   | Oct-86<br>Jan-76<br>Dec-84<br>Sep-83<br>Dec-96                             | NEM Part 521<br>A Guide for the Assessment of Water Quality<br>User's Guide for the CREAMS Computer Model<br>Water Quality Field Guide<br>National Handbook of Water Quality Monitoring  | Policy   | F,A,E,S<br>A,S<br>A,S<br>F,A,S<br>A,S                                  |
| 622                       | Water Supply and Conservation        |        |                  |   | NEM<br>NEH-22  | Nov-91<br>Apr-72   | NEM Part 522<br>Snow Survey & Water Supply Forecasting   | Policy   | F,A,E,S<br>A,S   |
| 623                       | Irrigation                           | 2<br>9 | Sep-93<br>Sep-97 | Irrigation Water Requirements<br>Water Measurement Manual (BuRec) | NEM<br>NEH-15<br>NEH-15<br>NEH-15<br>NEH-15<br>NEH-15<br>NEH-15<br>NEH-15<br>NEH-15<br>NEH-15<br>IRN-1<br>IRN-2<br>IRN-3<br>IRN-4<br>IRN-5 | Aug-85<br>Dec-91<br>1967<br>1974<br>Oct-84<br>1969<br>1984<br>1983<br>1961 | NEM Part 523<br>Chpt. 1 - Soil-Plant-Water Relationships<br>Chpt. 3 - Planning Farm Irrigation Systems<br>Chpt. 4 - Border Irrigation<br>Chpt. 5 - Furrow Irrigation<br>Chpt. 6 - Contour Levee Irrigation<br>Chpt. 7 - Trickle Irrigation<br>Chpt. 11 - Sprinkler Irrigation<br>Chpt. 12 - Land Leveling<br>Trickle Irrigation Evaluation<br>Irrigation Water Management<br>Sprinkler irrigation Field Evaluation<br>Sprinkler irrigation Field Evaluation<br>Surge Flow irrigation Guide | 623.02 replaces TR-21<br>623.09 replaces NEH-15, Chapter 9<br>Policy | A,S<br>A,S<br>F,A,E,S<br>A,S<br>A,S<br>A,S<br>A,S<br>A,S<br>A,S<br>A,S |
| 624                       | Drainage                             | 10     | Jun-01           | Water Table Control   | NEH-16   | 1971   | Drainage, Chapters 1 - 4, 8 & 9  |  | A,S  |

NRCS ENGINEERING REFERENCE DOCUMENT INDEX

| CURRENT DIRECTIVES SYSTEM |  |  |  | FORMER DIRECTIVES SYSTEM   |   |  | NOTES  | DIST. CODE   |
|---------------------------|--|--|--|--|---|--|--|--|
| PART                      | SUBJECT  | CHPT.  | DATE   | TITLE  | ITEM  | DATE   |  |  |
| 625                       | Restoration                                    |  |  |  |   |  |  |  |
| 626                       | Storm Water Management                         |  |  |  | NEH-16<br>TR-57   | 1971<br>Jan-75   | Drainage, Chapter 6 (dikes)<br>Flood Proofing  | A,S<br>A,S   |
| 627                       | Wetlands                                       |  |  |  |   |  |  |  |
| 628                       | Dams   | 50<br>52                                     | Aug-97<br>Sep-97   | Earth Spillway Design<br>Field Proc. Guide for the Headcut Erod. Index   | TR-46<br>TR-56<br>TR-60<br>DN-1<br>DN-3<br>DN-6   | Dec-82<br>Dec-74<br>Oct-85<br>Aug-67<br>Jul-68<br>Jan-86   | Gated Outlet Appurtenances, Earth Dams, Parts A, C-J<br>Des. & Layout of Veg. Wave Prot. for Earth Dam Emb.<br>Earth Dams & Reservoirs<br>Scour Protection at Base of Risers to Drop Inlet Spillways<br>Detail of Riprap above Berm on Earth Dam<br>Riprap Lined Plunge Pool for Cantilever Outlet   | 628.50 replaces TR-2 & TR-52<br><br>A,S<br>A,S<br>A,S<br>A,S<br>S<br>S<br>S  |
| 629                       | Air Quality                                    |  |  |  |   |  |  |  |
| 630                       | <b>Parts 630/639 - TECHNOLOGY</b><br>Hydrology | 1<br>3<br>4<br>5<br>6<br><br>31<br>210-728.5 | Sep-97<br>Apr-99<br>Mar-93<br>Sep-97<br>Nov-98<br><br>Oct-93<br>Dec-96 | Introduction<br>Preliminary Investigations<br>Storm Rainfall Depth<br>Streamflow Data<br>Stream Reaches and Hydrologic Units<br><br>Computer Program for Water Surface Profiles<br>SITES - Water Resource Site Analysis, v96.1 | NEM<br>NEH-4<br>TR-1<br>TR-16<br>TR-19<br>TR-20<br>TR25<br>TR-33<br>TR-35<br>TR-37<br>TR-38<br>TR-55<br>TR-66<br>TR-75<br>DN-16<br>HN-1 | Sep-97<br>Mar-85<br>Jul-55<br>Apr-76<br>Mar-62<br>Mar-92<br>Sep-77<br>Apr-78<br>Feb-67<br>Dec-67<br>Mar-76<br>Jun-86<br>Sep-85<br>Jul-91<br>Dec-76<br>Oct-81 | NEM Part 530<br>Hydrology<br>Routing Through Tide Gates<br>Rainfall-Runoff Tables for Selected Runoff<br>Det. of Storage Req. to Meet Supply Demand ...<br>Computer Program for Project Formulation - Hydrology<br>Chapter 4<br>Simplified Method for Determining Floodwater Retarding Storage<br>UD Method of Reservoir Flood Routing<br>Str. Analysis & Des.- Riser w/ conduit openings in Both Endwalls<br>New Tables of Percentage Points of the Pearson Type III Distribution<br>Urban Hydrology for Small Watersheds<br>Simplified Dam Breach Routing Procedure & appendix<br>Reservoir Storage Volume Planning<br>Probability of Occurrence for Certain Design Events<br>Est. of Peak Rates of Runoff Using Measured Stream Flow Data | replaces NEH 4, chapter 3<br><br>replaces NEH4, chapter 6, distributed 9/99<br><br>630.31, WSP2, replaces TR-61<br>SITES replaces TR-48, DAMS2<br>Policy<br><br>A,S<br>A,S<br>A,S<br>A,S<br>A,S<br>A,S<br>A,S<br>A,S<br>A,S<br>A,S<br>S<br>S |
| 631                       | Geology  | 33   | Nov-98   | Investigations for Ground Water Resources Development  | NEM<br>NEH-3<br>NEH-8<br>NEH-18<br>TR-17<br>TR-25<br>TR-28<br>TR-32   | Sep-86<br>Dec-83<br>May-78<br>Jun-78<br>Mar-66<br>Sep-77<br>Feb-65<br>Jul-66   | NEM Part 531<br>Sedimentation<br>Engineering Geology<br>Groundwater<br>Geologic Investigation for Watershed Planning<br>Chapter 3<br>Clay Minerals<br>Procedures for Determining Rates ... by Gully Erosion  | Policy<br><br>Cancelled 11/19/99, replaced by NEH Part 631, Chpt. 33<br><br>A,S<br>A,S<br>A,S<br>A,S<br>A,S  |

NRCS ENGINEERING REFERENCE DOCUMENT INDEX

| CURRENT DIRECTIVES SYSTEM |   |       |        |   | FORMER DIRECTIVES SYSTEM |        |   | NOTES                                 | DIST. CODE |
|---------------------------|---|-------|--------|---|--------------------------|--------|---|---------------------------------------|------------|
| PART                      | SUBJECT                                 | CHPT. | DATE   | TITLE                                       | ITEM                     | DATE   | TITLE   |                                       |            |
|                           |   |       |        |   | TR-36                    | Jun-67 | Ground-Water Recharge   |                                       | A,S        |
|                           |   |       |        |   | TR-41                    | Mar-69 | Graphical Solutions of Geologic Problems                            |                                       | A,S        |
|                           |   |       |        |   | TR-44                    | Aug-71 | Seismic & Resistivity Methods of Geophysical Exploration            |                                       | A,S        |
|                           |   |       |        |   | TR-51                    | Sep-77 | Procedure for Computing Sheet & Rill Erosion of Project Areas       |                                       | A,S        |
|                           |   |       |        |   | TR-53                    | May-81 | Proc. for Prep. Ann. Sum. of NRCS Sedimentation Activities          |                                       | A,S        |
|                           |   |       |        |   | TR-71                    | Feb-87 | Rock Material Field Classification Procedure                        |                                       | A,S        |
|                           |   |       |        |   | TR-78                    | Jun-91 | The Characterization of Rock for Hydraulic Erodibility              |                                       | A,S        |
|                           |   |       |        |   | GN-1                     | 1973   | Color codes for sediment yield maps                                 |                                       | S          |
|                           |   |       |        |   | GN-2                     | Apr-80 | Predictions of Con. of Fine Sed. in Chan.s from single storm events |                                       | S          |
|                           |   |       |        |   | GN-3                     | May-84 | Geologic Investigations   |                                       | S          |
|                           |   |       |        |   | GN-4                     | May-84 | Photography of Rock Core Samples                                    |                                       | S          |
|                           |   |       |        |   | GN-5                     | Nov-91 | Soil Sample Size Required for SM Lab. Testing                       |                                       | S          |
|                           |   |       |        |   | SMN-2                    | Aug-69 | Lightweight Piston Samples for Soft Soils                           |                                       | S          |
|                           |   |       |        |   | SMN-4                    | Jun-73 | Preparation & Shipment of Undisturbed Core Soil Samples             |                                       | S          |
|                           |   |       |        |   |                          |        | EGEM - Gully Erosion Model  |                                       | S          |
|                           |   |       |        |   |                          |        | RUSLE - Revised Soil Loss Equation                                  |                                       | S          |
|                           |   |       |        |   |                          |        | WEPP - Water Erosion Prediction Project                             |                                       | S          |
| 632                       | Biological and Agricultural Engineering |       |        |   | NEM                      | Dec-97 | NEM Part 532  | Policy                                | F,A,E,S    |
|                           |   |       |        |   | AEN-1                    | Jan-81 | Treatment of Abandoned Mine Shafts & Adits                          |                                       | S          |
|                           |   |       |        |   | AEN-2                    | Dec-82 | Aquaculture Pumping Plants  |                                       | S          |
|                           |   |       |        |   | AEN-3                    | Oct-84 | Aeration of Ponds Used in Aquaculture                               |                                       | S          |
| 633                       | Soil Engineering                        | 26    | Oct-94 | Gradation Design of Sand and Gravel Filters |                          |        |   | 633.26 replaces soil mechanics note 1 | A,S        |
|                           |   |       |        |   | NEM                      | Feb-81 | NEM Part 533  | Policy                                | F,A,E,S    |
|                           |   |       |        |   | TR-26                    | Dec-64 | The Use of Soils Containing >5% rock ...                            |                                       | A,S        |
|                           |   |       |        |   | TR-27                    | Feb-65 | Lab & Field Test Proc. for control of Den/Moist of Earth Emb.       |                                       | A,S        |
|                           |   |       |        |   | TR-74                    | Jul-89 | Lateral Earth Pressures   |                                       | A,S        |
|                           |   |       |        |   | DN-24                    | Nov-91 | Guide for the Use of Geotextiles                                    |                                       | S          |
|                           |   |       |        |   | SMN-3                    | May-71 | Soil Mechanics Considerations for Embankment Drains                 |                                       | S          |
|                           |   |       |        |   | SMN-5                    | Oct-73 | Flow Net Construction & Use   |                                       | S          |
|                           |   |       |        |   | SMN-6                    | Mar-76 | Glossary, Symbols, Abbreviations & Conversion Factors               |                                       | S          |
|                           |   |       |        |   | SMN-7                    | Oct-79 | The Mechanics of Seepage Analysis                                   |                                       | S          |
|                           |   |       |        |   | SMN-8                    | Dec-84 | Soil Mechanics Testing Standards                                    |                                       | S          |
|                           |   |       |        |   | SMN-9                    | Mar-84 | Permeability of Selected Clean Sands & Gravels                      |                                       | S          |
|                           |   |       |        |   |                          |        | STABL2 - Slope Stability Analysis Software                          |                                       | S          |
|                           |   |       |        |   | SMN-10                   | Jan-84 | Supplement to STABL2 Users Manual                                   |                                       | S          |
|                           |   |       |        |   | SMN-11                   | Jun-84 | The Static Cone Penetrometer Test                                   |                                       | S          |
|                           |   |       |        |   | SMN-12                   | Jun-87 | Portable Pinhole Test Apparatus                                     |                                       | S          |
|                           |   |       |        |   | SMN-13                   | Feb-91 | Dispersive Clays  |                                       | S          |
| 634                       | Hydraulic Engineering                   |       |        |   | NEH-3                    | Dec-83 | Geology - Chapter 4   |                                       | A,S        |
|                           |   |       |        |   | NEH-5                    | Aug-56 | Hydraulics - Chapters 1-7, 9  |                                       | A,S        |
|                           |   |       |        |   | NEH-5                    | Aug-56 | Hydraulics - Chapter 8  |                                       | A,S        |
|                           |   |       |        |   | NEH-11                   | Apr-68 | Drop Spillways - Chapters 1, 2, 3, 5                                |                                       | A,S        |
|                           |   |       |        |   | NEH-14                   | Oct-77 | Chute Spillways   |                                       | A,S        |
|                           |   |       |        |   | NEH-15                   | 1959   | Chapter 8 - Irrigation Pumping Plants                               |                                       | A,S        |
|                           |   |       |        |   | NEH-16                   | 1971   | Drainage - Chapters 5 (open ditches) & 7 (pumping)                  |                                       | A,S        |
|                           |   |       |        |   | TR-3                     | Jun-56 | Hood Inlets for Culvert Spillways                                   |                                       | A,S        |
|                           |   |       |        |   | TR-4                     | Jun-56 | Height of Water Column Supported by Atmospheric Pressure            |                                       | A,S        |
|                           |   |       |        |   | TR-25                    | Oct-77 | Chapter 5   |                                       | A,S        |
|                           |   |       |        |   | TR-29                    | Jun-65 | Hydraulics of Two-Way Covered Risers                                |                                       | A,S        |
|                           |   |       |        |   | TR-39                    | May-68 | Hydraulics of Broad Crested Spillways                               |                                       | A,S        |
|                           |   |       |        |   | TR-47                    | Feb-71 | Classification System for Varied Flow in Prismatic Channels         |                                       | A,S        |
|                           |   |       |        |   | TR-49                    | Mar-71 | Criteria for Hydraulic design of Impact Basins                      |                                       | A,S        |
|                           |   |       |        |   | TR-59                    | Jan-76 | Hydraulic Design of Riprap Gradient Control Structures              |                                       | A,S        |
|                           |   |       |        |   | TR-64                    | Jun-78 | Floodway Determination Computer Program                             |                                       | A,S        |



NRCS ENGINEERING REFERENCE DOCUMENT INDEX

| CURRENT DIRECTIVES SYSTEM                     |  |                                      |  |  | FORMER DIRECTIVES SYSTEM  |  |  | NOTES  | DIST. CODE   |
|---|--|--------------------------------------|--|--|---|--|--|--|--|
| PART  | SUBJECT                                      | CHPT.                                | DATE   | TITLE  | ITEM  | DATE   | TITLE  |  |  |
|   |  |                                      |  |  | SN-2<br>SN-3<br>SN-4<br>SN-5<br>SN-6<br>SN-7<br>SN-8<br>SN-9<br>SN-10 |  |  |  | S<br>S<br>S<br>S<br>S<br>S<br>S<br>S<br>S                      |
| 643   | Materials                                    |                                      |  |  | NEM<br>SN-11  | Sep-97   | NEM Part 543   | Policy   | F,A,E,S<br>S   |
| 644   | Equipment                                    |                                      |  |  | NEM   | Sep-97   | NEM Part 544   | Policy   | F,A,E,S  |
| 645   | Engineering Quality Assurance                |                                      |  |  | NEH-19<br>TR-34<br>CN-2   | Jun-85<br>Aug-66<br>Jul-83                     | Construction Inspection<br>Application of Statistics to Concrete Quality Control<br>Field Density & Moisture Content - Nuclear Gauge Method  |  | E,A,S<br>A,S<br>A,S  |
| <b>Parts 650/659 - FIELD OFFICE HANDBOOKS</b> |  |                                      |  |  |   |  |  |  |  |
| 650   | Engineering Field Handbook                   | 13<br>18<br>16<br>19                 | Jan-92<br>Apr-93<br>Aug-96<br>Aug-97                     | Wetland Restoration<br>Soil Bioengineering<br>Streambank and Shoreline Protection<br>Hydrology Tools for Wetland Determination   | EFM-1<br>EFM-1E<br>EFM-1F<br>EFM 1G,H<br>EFM 1I                       | Jul-84<br>Mar-86<br>Mar-86<br>Aug-89<br>Aug-90 | ENGINEERING FIELD MANUAL (EFM)<br>EFM Chapter 7 - Grassed Waterways<br>EFM Chapter 9 - Diversions<br>EFM Chapter 2 - Estimating Runoff and Peak Discharges<br>EFM Chapter 4- Elementary Soil Engineering | Replaces EFM Chpt. 13 1st ed.<br>Replaces EFM Chpt. 16 1st ed.<br><br>revision to 1984 printing<br>revision to 1984 printing<br>revision to 1984 printing<br>revision to 1984 printing | F,E,A,S<br>F,E,A,S<br>F,E,A,S<br>F,E,A,S                       |
| 651   | Agricultural Waste Management Field Handbook | 1 - 11<br>15<br>13<br>10<br>10<br>12 | Apr-92<br>May-96<br>Aug-96<br>Oct-96<br>Nov-97<br>Nov-97 | AWMFH<br>Computer Software & Models<br>Operation, Maintenance, and Safety<br>Component Design (corrections & revisions)<br>App. 10D - Geotech. Consid. for Des. & Con.<br>Waste Management Equipment | AWMFH   | Aug-75   | Ag Waste Field Manual  | Replaces former AWMFH<br><br><br><br><br>New Chapter, distributed in CO June '98<br>Retain Chapters 14, 15 & 16 for the new AWMFH  | F,E,A,S<br>F,E,A,S<br>F,E,A,S<br>F,E,A,S<br>F,E,A,S<br>F,E,A,S |
| 652   | Irrigation Guide                             | 1 - 17                               | Sep-97   | NEH-652 National Irrigation Guide  |   |  |  | Keep NEH-652 and Colorado Irrigation Guide   | F,E,A,S  |

Distribution Code: F = Field Office, A = Area Office, S = State Office, E = All Engineers