

Suivi de la tension résiduelle par auscultation des tirants d’ancrage du parc hydraulique EDF

Follow-up of the residual strain by monitoring of the ground anchors of EDF’s hydropower plants

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MOTS CLÉS

Précontrainte, tirants, pesage, cellule de charge.

RÉSUMÉ

Assez peu d’ouvrages hydrauliques EDF sont aujourd’hui équipés de tirants d’ancrage auscultés. Dans l’hydraulique, cette technique a pour but de stabiliser et/ou renforcer une structure par des ancrages actifs. Mais avec le vieillissement des ouvrages hydrauliques, ces méthodes de confortement deviennent intéressantes voire indispensables, ainsi que le suivi métrologique de la traction appliquée. Dans ce contexte, il s’est avéré utile d’établir un premier Retour d’Expérience sur l’auscultation des tirants d’ancrage pour le parc hydraulique EDF ainsi qu’un inventaire des techniques permettant la mesure de tension résiduelle. Cela permettra d’engager des réflexions sur l’harmonisation des pratiques et ainsi mieux aborder sur le long terme les techniques d’auscultation pour ce type de confortement et les futurs projets (Chambon, Choranche).

ABSTRACT

Today, relatively few EDF’s hydropower plants are equipped with monitored anchors. In hydraulics, the purpose of this technique is to stabilize and/or reinforce a structure by active anchors. With the ageing of the hydraulic works, these methods of confortement become interesting even essential, as well as the metrological follow-up of the strain applied. In this context, it proved to be useful to establish a first feedback on the monitoring of anchors for EDF’s hydropower plants as well as an inventory of the techniques allowing the measurement of residual strain. That will allow to engage reflections on the harmonization of the practices, and to better approach on the long run the techniques of monitoring for this kind of confortement and the future projects (Chambon, Choranche).

1. PREAMBULE

1.1 La précontrainte par post-tension

Parler de « précontrainte par post-tension » est un abus de langage car la précontrainte consiste à mettre en tension des armatures en acier avant leur blocage. Elles sont ensuite relâchées et permettent alors de mettre en compression le béton par simple effet d’adhérence. Il s’agit donc dans ce cas de « pré-tension ».

La « post-tension » consiste à mettre en tension des câbles ou barres après durcissement du béton de la structure à conforter. Ces tirants, intérieurs ou extérieurs au béton, sont enfilés dans des gaines et des ancrages qui s’appuient sur l’ouvrage.

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Table of Contents **La Constitution Europeacutteenne Laquo Que Saisje Raquo Ndeg 00**

1. Understanding the eBook **La Constitution Europeacutteenne Laquo Que Saisje Raquo Ndeg 00**
 - The Rise of Digital Reading **La Constitution Europeacutteenne Laquo Que Saisje Raquo Ndeg 00**
 - Advantages of eBooks Over Traditional Books
2. Identifying **La Constitution Europeacutteenne Laquo Que Saisje Raquo Ndeg 00**
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an **La Constitution Europeacutteenne Laquo Que Saisje Raquo Ndeg 00**
 - User-Friendly Interface
4. Exploring eBook Recommendations from **La Constitution Europeacutteenne Laquo Que Saisje Raquo Ndeg 00**
 - Personalized Recommendations

- La Constitution Europeacutteenne Laquo Que Saisje Raquo Ndeg 00 User Reviews and Ratings
- La Constitution Europeacutteenne Laquo Que Saisje Raquo Ndeg 00 and Bestseller Lists
- 5. Accessing La Constitution Europeacutteenne Laquo Que Saisje Raquo Ndeg 00 Free and Paid eBooks
 - La Constitution Europeacutteenne Laquo Que Saisje Raquo Ndeg 00 Public Domain eBooks
 - La Constitution Europeacutteenne Laquo Que Saisje Raquo Ndeg 00 eBook Subscription Services
 - La Constitution Europeacutteenne Laquo Que Saisje Raquo Ndeg 00 Budget-Friendly Options
- 6. Navigating La Constitution Europeacutteenne Laquo Que Saisje Raquo Ndeg 00 eBook Formats
 - ePub, PDF, MOBI, and More
 - La Constitution Europeacutteenne Laquo Que Saisje Raquo Ndeg 00 Compatibility with Devices
 - La Constitution Europeacutteenne Laquo Que Saisje Raquo Ndeg 00 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of La Constitution Europeacutteenne Laquo Que Saisje Raquo Ndeg 00
 - Highlighting and Note-Taking La Constitution Europeacutteenne Laquo Que Saisje Raquo Ndeg 00
 - Interactive Elements La Constitution Europeacutteenne Laquo Que Saisje Raquo Ndeg 00
- 8. Staying Engaged with La Constitution Europeacutteenne Laquo Que Saisje Raquo Ndeg 00
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers La Constitution Europeacutteenne Laquo Que Saisje Raquo Ndeg 00
- 9. Balancing eBooks and Physical Books La Constitution Europeacutteenne Laquo Que Saisje Raquo Ndeg 00
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection La Constitution Europeacutteenne Laquo Que Saisje Raquo Ndeg 00
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine La Constitution Europeacutteenne Laquo Que Saisje Raquo Ndeg 00
 - Setting Reading Goals La Constitution Europeacutteenne Laquo Que Saisje Raquo Ndeg 00
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of La Constitution Europeacutteenne Laquo Que Saisje Raquo Ndeg 00
 - Fact-Checking eBook Content of La Constitution Europeacutteenne Laquo Que Saisje Raquo Ndeg 00

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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