

WANO CORPORATE PEER REVIEW PROGRAM

The example of Rosenergoatom Concern
Peer Review, April 2011

- Process and significance
- Results



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WANO CORPORATE PEER REVIEW PROGRAM

- **A PROGRAM STARTED SEVERAL YEARS AGO WHICH HAS ALREADY CONCERNED :**
 - ONTARIO HYDRO (1998)
 - BRITISH ENERGY (2001 et 2003)
 - ONTARIO POWER GENERATION (2002, 2008 et 2011)
 - EDF (2003 et 2006)
 - TEPCO (2008 et 2010)
 - E.ON (2009)
 - ELECTRONUCLEAR (2009)
 - ESKOM (2011)
 - ROSENERGOATOM (2011)
- **A PROGRAM BASED ON A WANO DOCUMENT : « PERFORMANCE OBJECTIVES AND CRITERIA FOR WANO CORPORATE PEER REVIEW » (ISSUED IN APRIL 2005 AND REVISED IN APRIL 2008).**
- **A PROGRAM WHICH SHOULD NOW CONCERN EACH COMPANY EVERY SIX YEARS**



WANO CORPORATE PEER REVIEW APPROACH

- TO IDENTIFY :

STRENGTHS :

- WHICH REFLECT THINGS DONE PARTICULARLY WELL BY THE COMPANY
- WHICH COULD BE OF BENEFIT TO OTHER UTILITIES WHO MAY WISH TO EMULATE THESE PRACTICES

AREAS FOR IMPROVEMENT :

- WHICH REFLECT AREAS, WHERE IN THE PEER TEAM OPINION, FURTHER ATTENTION BY THE COMPANY IS NEEDED TO PROVIDE THE HIGHEST STANDARDS OF CORPORATE SUPPORT TO THE NUCLEAR STATIONS

- TO PROPOSE :

SUGGESTIONS :

- WHICH REFLECT SUBJECTS WHERE WANO ENCOURAGES THE COMPANY TO DIG ITS OWN REFLECTION



THE ROSENERGOATOM WANO CORPORATE PEER REVIEW (APRIL, 2011)

- A REQUEST OF REA DIRECTOR GENERAL
- AN INTERNATIONAL TEAM OF 8 SENIOR ADVISORS
- TWO WEEKS OF OBSERVATIONS AND MEETINGS
 - => ON ALL R.E.A. NUCLEAR POWER PLANTS
 - => ON CORPORATE LEVEL IN MOSCOW
- SPECIFIC CONTEXT : REVIEW PERFORMED ONLY ONE MONTH AFTER FUKUSHIMA – DAÏCHI ACCIDENT



MAIN AREAS FOCUSED BY THE REVIEW

- **CORPORATE LEADERSHIP AND MANAGEMENT**
=> COMMUNICATION OF GOALS, OBJECTIVES, STANDARDS
=> COMMUNICATION THAT NUCLEAR SAFETY IS TOP PRIORITY
- **CORPORATE MONITORING AND OVERSIGHT**
=> LINE AND INDEPENDANT MONITORING
- **CORPORATE SUPPORT**
=> HOW ISSUES ARE ADRESSED THAT AFFECT THE NUCLEAR STATIONS
- **HUMAN RESSOURCES**
- **COMMUNICATIONS**



CORPORATE LEADERSHIP AND MANAGEMENT : EXAMPLES OF STRENGTHS AND A.F.I.

- (STRENGTH) MODERNIZATION EFFORTS, INCLUDING UPGRADES AND MODIFICATIONS, HAVE SIGNIFICANTLY IMPROVED SAFETY MARGINS, REDUCED CORE DAMAGE FREQUENCY, AND ALLOWED FOR LIFE EXTENSION OF MULTIPLE UNITS.
- (STRENGTH) PROACTIVE ACTIONS HAVE BEEN TAKEN IN EMERGENCY PREPAREDNESS AND TRAINING FOLLOWING THE FUKUSHIMA ACCIDENT TO ENSURE ROSENERGOATOM READINESS FOR A BEYOND DESIGN BASIS ACCIDENT.
- *(AFI) NOT ALL OPPORTUNITIES ARE USED TO ACHIEVE INDUSTRY PRACTICES FOR SAFE AND RELIABLE OPERATION OF THE PLANTS*

CORPORATE MONITORING AND OVERSIGHT : EXAMPLE OF A.F.I.

- *(AFI) THE INDEPENDENT OVERSIGHT FUNCTION IS NOT ALWAYS SEEN AS A TOOL TO STRENGTHEN NUCLEAR SAFETY AND IMPROVE PERFORMANCE.*

HUMANS RESOURCES AND COMMUNICATIONS : EXAMPLES OF STRENGTHS

- (STRENGTH) THERE IS AN EFFECTIVE CORPORATE PROGRAM FACILITATING OUTREACH TO THE YOUNG GENERATION.
- (STRENGTH) THE CORPORATE ORGANIZATION HAS FREQUENT COMMUNICATIONS WITH AND MEETINGS AT THE TEN NUCLEAR POWER PLANTS RESULTING IN A HIGH LEVEL OF ENGAGEMENT BY STATION DIRECTORS IN CORPORATE STRATEGY AND DECISION-MAKING.

AN INTERESTING FOLLOW UP INITIATIVE BETWEEN OPERATORS

- ONE OF THE AFI (AREAS FOR IMPROVEMENT) IDENTIFIED BY WANO WAS ON STRENGTHENING OF THE INDEPENDANT NUCLEAR SAFETY OVERSIGHT FUNCTION.
- REA DECIDED TO IMPROVE IT, ESPECIALLY BY COOPERATION WITH EDF GROUP.
- SEVERAL MEETINGS BETWEEN THE REA AND EDF NUCLEAR INSPECTORATE TEAMS WERE HELD SINCE 2011, SUCCESSFULLY AND WITH CONCRETE AND PRAGMATIC ACTIONS UNDERTAKEN.



OTHER FOLLOW UP INITIATIVES FROM REA

- REA DIRECTOR GENERAL DECIDED TO RELEASE TO THE PUBLIC AND TO ALL THE WANO MEMBERS THE MAIN ISSUES CONTAINED INSIDE THE CORPORATE PEER REVIEW REPORT : THE FINAL REPORT REMAINED PRIVATE BUT A SEPARATE SUMMARY HAS BEEN PREPARED BY THE REVIEW TEAM AND HAS BEEN PLACED ON THE PUBLIC WEBSITE OF REA AND DISTRIBUTED TO ALL WANO CENTERS.
- A FOLLOW-UP VISIT TO REA IS BEING PLANNED AND COULD HAPPEN AT THE BEGINNING OF 2013 YEAR.

ROSENERGOATOM CORPORATE PEER REVIEW : SIGNIFICANCE FOR WANO

- A VERY GOOD EXAMPLE OF SUCH A REVIEW FOR THE COMPANY FIRST, BUT ALSO FOR THE WHOLE NUCLEAR COMMUNITY
- A COMPLETE OVERVIEW OF THE REA CORPORATE AND PLANTS SUPPORT ORGANIZATION USEFUL FOR THE COMPANY, EVEN HAPPENING IN A VERY BUSY AND DIFFICULT CONTEXT (ONE MONTH AFTER FUKUSHIMA)
- A GREAT EXPERIENCE FOR ALL THE PEERS AND REVIEWERS BUT ALSO AN INTERESTING FEEDBACK FOR WANO, IN ORDER TO CONTINUOUSLY IMPROVE THIS PROGRAM WHICH WILL PROBABLY INTENSIFIED IN THE FUTURE BECAUSE OF THE CHALLENGES OF THE NUCLEAR COMMUNITY (FUKUSHIMA LESSONS, LIFE EXTENSION PROGRAMS, NEW ENTRANTS AND COMMISSIONING OF NEW POWER PLANTS)



ANY QUESTION ?

THANK YOU FOR YOUR ATTENTION

