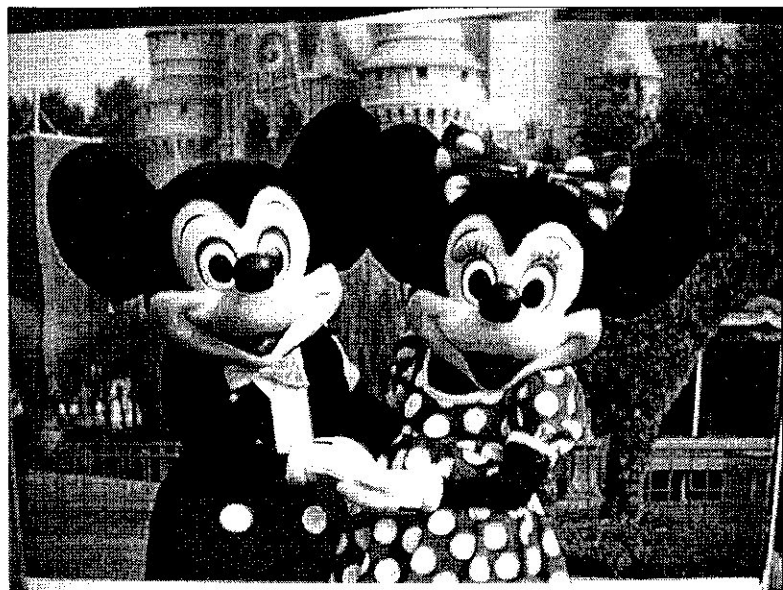


IMPACT OF REGULATIONS ON THE PAPER INDUSTRY

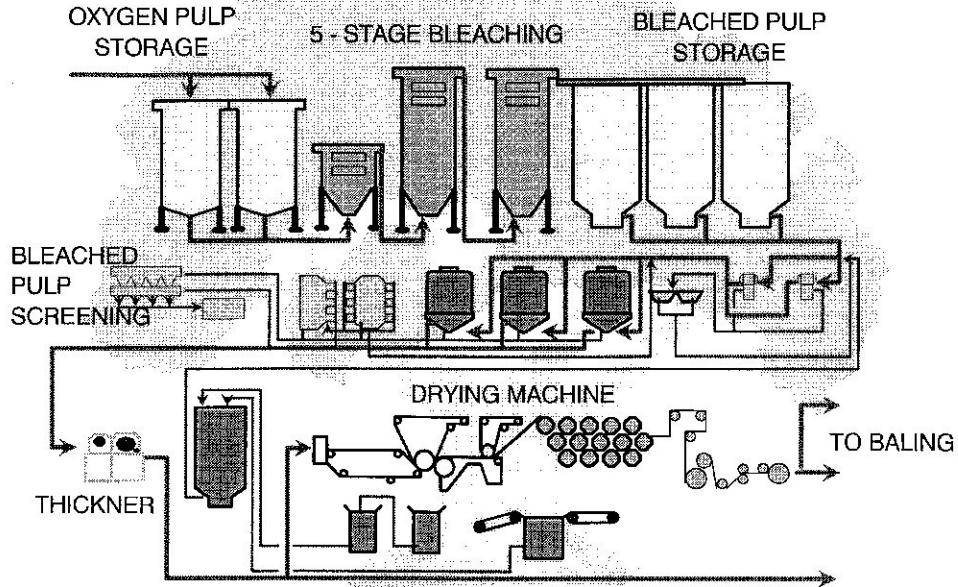
**BRAZILIAN REPORT
BY
CELSO FOELKEL**



THE MAGIC OF ORLANDO



THE WORLD OF PULP BLEACHING



INTERNATIONAL NON-CHLORINE BLEACHING CONFERENCE

Implementation — Putting Results to Work

THE NCB WONDERFUL WORLD OR RUDY'S MAGIC KINGDOM

FORESTRY REGULATIONS

 **PLANTATIONS: ENVIRONMENTAL IMPACTS ON SOIL,
WATERSHED AND BIODIVERSITY**

 **FOREST REPLANTING OBLIGATION
(FOREST REPOSITION)**

 **HARVESTING PERMITS**

 **PLANTING LICENSES
(ENVIRONMENTAL IMPACT ANALYSIS)**

 **INTEGRATED FOREST / INDUSTRY PLAN:
TO ALL USERS WITH CONSUMPTION HIGHER THAN
8000 M³ / YEAR**

FORESTRY REGULATIONS

 **PLANTATIONS: ENVIRONMENTAL
IMPACTS ON SOIL, WATERSHED
AND BIODIVERSITY**

FORESTRY REGULATIONS



FOREST REPLANTING OBLIGATION (FOREST REPOSITION)

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HARVESTING PERMITS

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**INTEGRATED FOREST /
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TO ALL USERS
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ENVIRONMENTAL MANAGEMENT



ENVIRONMENTAL AUDITS



ENVIRONMENTAL IMPACT ASSESSMENTS



ISO 14000 / BS 7750



ECO - LABELLING



POLITICAL ISSUES

- PUBLIC HEARINGS

- PERMIT FROM HOUSE OF REPRESENTATIVES

- PERMIT FROM ENVIRONMENTAL COUNCILS



IMPACT OF CLUSTER RULES

ENVIRONMENTAL MANAGEMENT



ENVIRONMENTAL AUDITS

ENVIRONMENTAL MANAGEMENT



ENVIRONMENTAL IMPACT ASSESSMENTS

ENVIRONMENTAL MANAGEMENT



ISO 14000 / BS 7750

ENVIRONMENTAL MANAGEMENT



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ENVIRONMENTAL MANAGEMENT



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ENVIRONMENTAL MANAGEMENT



IMPACT OF CLUSTER RULES

HYDRIC RESOURCES



**FRENCH MODEL : PAYER USER
PAYER POLLUTER**



ECOTOXICITY



CHLORINATED ORGANICS / DIOXINS



CHLORATES

HYDRIC RESOURCES



FRENCH MODEL :

PAYER USER

PAYER POLLUTER

HYDRIC RESOURCES



ECOTOXICITY

HYDRIC RESOURCES



**CHLORINATED ORGANICS /
DIOXINS**

HYDRIC RESOURCES



CHLORATES

BLEACHING TECHNOLOGY



OXYGEN DELIGNIFICATION



ELEMENTAL CHLORINE FREE BLEACHING



TCF BLEACHING

- MARKET PULP
- DISSOLVING GRADE PULP
- INTEGRATED PAPER MILLS



**CLOSING OVERALL WATER SYSTEM
(STEP BY STEP)**

BLEACHING TECHNOLOGY



OXYGEN DELIGNIFICATION

BLEACHING TECHNOLOGY



ELEMENTAL CHLORINE FREE BLEACHING

BLEACHING TECHNOLOGY



TCF BLEACHING

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BLEACHING TECHNOLOGY



CLOSING OVERALL WATER SYSTEM (STEP BY STEP)

THE MAGIC OF PULP & PAPER

