

2.4.

CoinAll-1.2 and GAMS 23.1 added

3.4.2

Change of indexing bounds for all index variables. New indexing is from 0 to X-1

NB added: “**NB**: The cycles must stay in the same order as the index. The last cycles can be outside the considered period and in this case there is no need to schedule the corresponding outages.”

3.4.4.

Information on numerical tolerance for all constraints added:

“For all constraints a numerical tolerance of 10^{-2} is considered”

3.4.4.1

Technical explanation added for constraints CT1, CT6, CT10, CT11,

[CT6] A change in the formulation to make it clear that the constraint applies during a production campaign.

An explication added to clear up ambiguity over the sequencing of an imposition of power level and an outage:

“An outage can start before, during or after the imposition of a decreasing power profile. If there is no longer enough fuel stock to produce, production is equal to zero ($p(i, t, s) = 0$). Production can stay at zero for an unlimited number of time steps before an outage is declared (as long as the constraint CT13 on the latest possible date of an outage is respected). There is no event that triggers an outage automatically.”

Rephrasing of the N.B for constraint CT12

3.4.4.2

Addition of some missing indices m

Technical explanation added for constraints , CT14-CT18, CT19, CT20, CT21

[CT13] $\mathbf{TA}_{i,k}$: *last possible* week of the **start** of an outage (i.e. coupling)

A change in formulation to account for sequencing of outages.

[CT14], [CT15] [CT16] [CT17] [CT18] A change in notation from $S_{e,m}$ to Se_m to make sure that e is not confused with an indice

[CT15] Minimum spacing/maximum overlapping between outages during a specific period

Outages of a set \mathbf{A}_m that intersect an interval **[ID, IF]** have to be spaced by at least or can overlap by at most $\mathbf{S}_{e,m}$ weeks, with m being the index of constraints CT15 varying from one to M_{15} .

3.4.5

Slight modification of the objective function – D^t added to the second term

4.1.1.2

N.B. added for the $BO_{i,k}$ parameter:

“N.B: For the $BO_{i,k}$ parameter, $K+1$ values are given in order to define the parameter for the campaign in progress at the end of the time horizon (CT13 requires a $BO_{i,k+1}$) ”

Explanation added for data on current campaign:

“The current campaign data refer to parameters of the production campaign that is underway at the beginning of the considered time horizon. The rest of the data applies to subsequent production campaigns with outages to be scheduled.”

update of the format of the profiles description

Explanation of the profile description format added:

“N.B. The imposed decreasing power profile is defined by N_p points (fuel, percentage of PMAX) coupling the stock of remaining fuel to percentage of maximum power output”

4.1.3

comment added: “For all the constraints that are applied on a set of outages A_m the input file will contain only Type 2 power plants. Also, if no applicable information exist for a certain parameter in a given data set, the data file will contain a -1 in the place of this parameter.”

4.1.3.7

update of the format of CT17

4.2

Explanation: how to output non-scheduled outages (in case some outages are unnecessary).