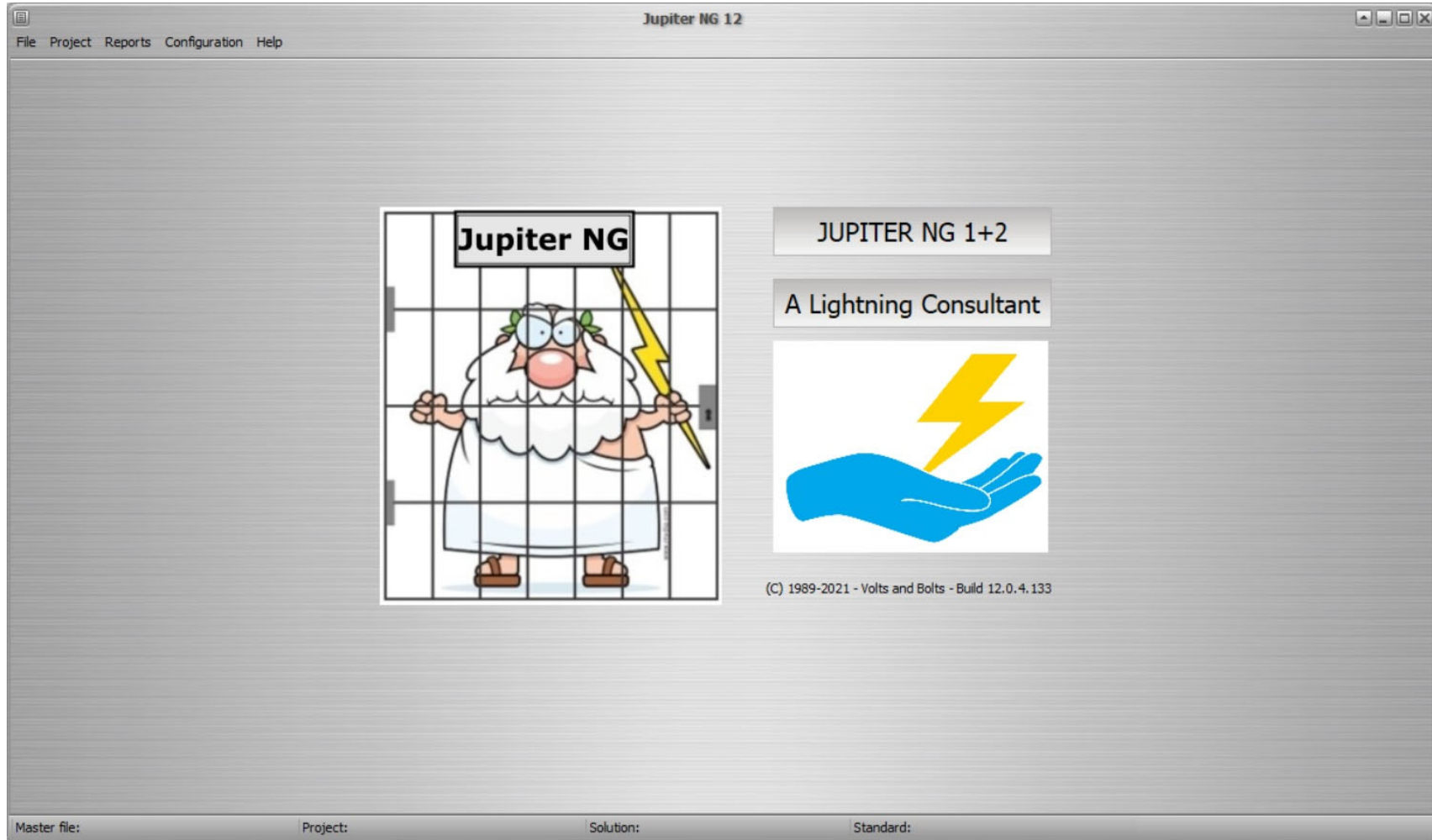


Jupiter NG 1+2



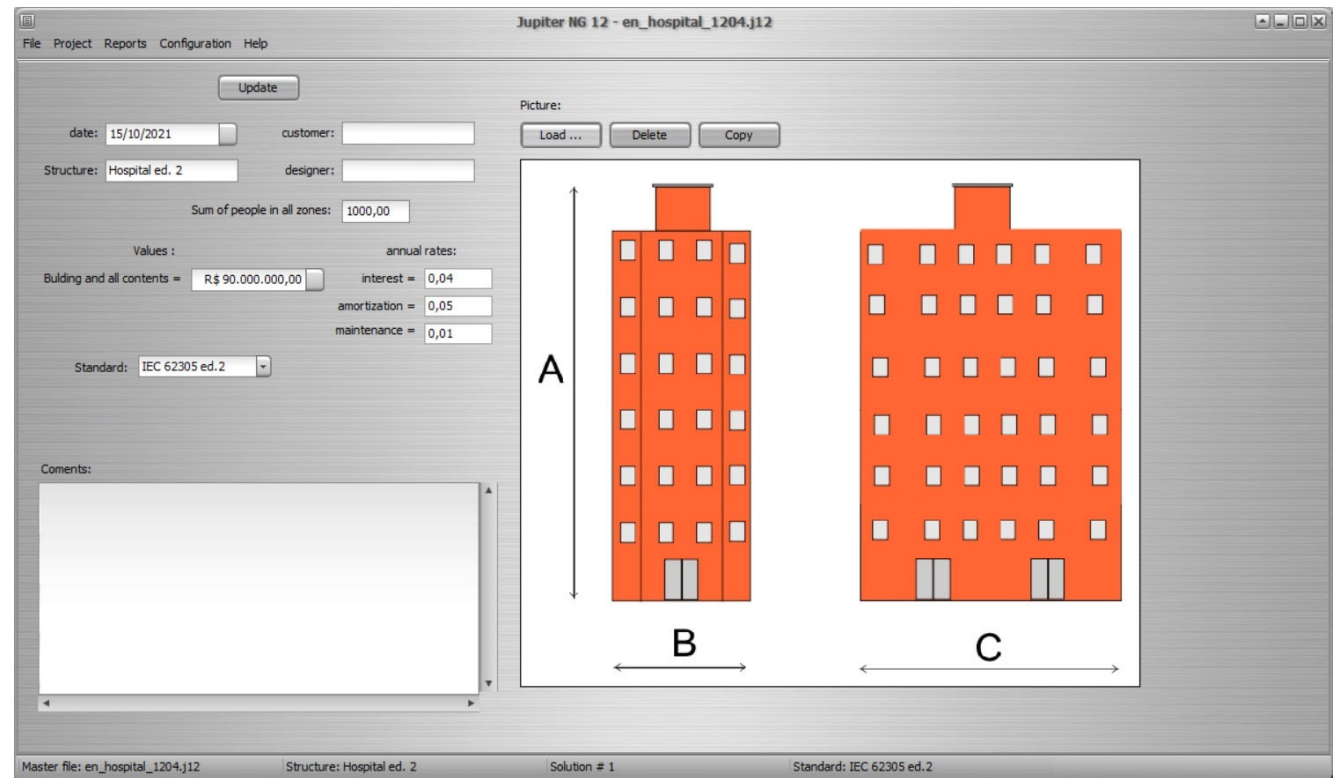
Jupiter NG 1+2

- Analyse du Risque Foudre selon IEC 62305-2
- Calcul de R1, R2, R3 et R4
- Comparaison entre solutions
- Différents versions rapports possibles

Données structurelles

Données structurelles complètes :

- image de la structure
- données globales du projet
- sélectionner éd. 1 ou 2
- vos commentaires



Données des solutions

Jusqu'à 6 solutions sur chaque structure

Chaque solution peut contenir :

- jusqu'à 16 zones
- jusqu'à 16 lignes de services
- combiner n'importe quelle zone à n'importe quelle(s) ligne(s) de service

The screenshot displays the 'Jupiter NG 12 - en_hospital_1204.j12' application window. At the top, there is a menu bar with 'File', 'Project', 'Reports', 'Configuration', and 'Help'. Below the menu bar, there is a 'Load Solution to Memory:' dropdown menu with a 'Load' button. The dropdown menu is open, showing a list of solutions: '1 - Original', '2 - Solution A', '3 - Solution B', '4 - Solution C', '5 - 5', and '6 - 6'. Below the dropdown, there are tabs for 'Names', 'Risk', 'Zones', and 'Service Lines'. The main area contains a table with columns for 'Solution:', 'Name:', and 'Description:'. The table has six rows, with the first row selected. The status bar at the bottom shows 'Master file: en_hospital_1204.j12', 'Structure: Hospital ed. 2', 'Solution # 1', and 'Standard: IEC 62305 ed.2'.

| Solution: | Name: | Description: |
|-----------|------------|--|
| 1 | Original | no LPS, no SPD |
| | Solution A | LPS 1, SPD 1.5x, fire prot. Z2, shield 0.5 |
| | Solution B | LPS 1, SPD 3x, fire prot. Z2 |
| | Solution C | LPS 1, SPD 2x, fire prot. Z2, shield 0.1 |
| | 5 | Enter descr. |
| | 6 | Enter descr. |

Données d'exposition

Dans cet écran :

Entrer:

- situation d'exposition
- Densité de décharges
- dimensions de la structure

Jupiter:

- zone de collecte
- Surface équivalent
- Impacts dans et à côté de la structure

The screenshot shows the 'Jupiter NG 12 - en_hospital_1204.j12' application window. The interface is divided into several sections:

- Environment:** A dropdown menu is set to 'Isolated structure: no other objects in the vicinity'. Below it, 'Flash Incidence' is set to '4,0000 flashes / km² / year'. There are links for 'Sources for Incidence data:' for France, World, and Brasil.
- Structure dimensions [m]:** A diagram shows two building footprints with dimensions A (height), B (width), and C (length). To the right, input fields are: A - Height: 10,00 [m]; B - Width: 50,00 [m]; C - Length: 150,00 [m].
- Incidence:** A text box provides instructions: 'After setting the tolerable Risks, we can calculate how many flashes will hit the Location and its surroundings. Choose the appropriate environment - other buildings near the Location, and their relative height. The standard requires the lightning density in flashes/square kilometer/year, you can find the data on the internet links indicated. Then enter the overall dimensions of the structure and click on the "Update" button to get the expected number of flashes to the structure and on its surroundings each year.'
- Update:** A button labeled 'Update' is present.
- Results:** Below the 'Update' button, three rows of data are shown: 'Areas: Real: 7500,00 [m²]', 'Collection (Ad): 22327,43 [m²]', and 'Influence (Am): 985398,16 [m²]'. At the bottom right, ' Strikes to the structure Nd = 0,08930973 /year' and ' Strikes near the structure Nm = 3,94159265 /year' are displayed.

The status bar at the bottom indicates: 'Master file: en_hospital_1204.j12', 'Structure: Hospital ed. 2', 'Solution # 1 Original', and 'Standard: IEC 62305 ed.2'.

Données des lignes de services

Dans cet écran :

Entrer:

- nouvelles lignes (ou modifier)
- paramètres de lignes
- description de la ligne
- structure adjacente (le cas échéant)

Jupiter:

- Surface équivalent
- zone d'influence
- Impacts dans et à côté de la ligne
- résultats de la structure adjacente

The screenshot shows the 'Jupiter NG 12 - en_hospital_1204.j12' application window. The 'Services' tab is active, displaying a 'Line:' list on the left with options: 'Power original', 'Telecom original', 'Power SPD 1.5x', 'Telecom SPD 1.5x', and 'Power SPD 3x'. To the right of the list are buttons for 'New', 'Edit', 'Copy to new', and 'Delete'. The 'Service Lines:' section contains input fields for 'Collection Area = 20000,00', 'Influence Area = 2000000,00', and 'Adj. Area = 0,00'. Corresponding 'Strikes' values are shown: 'Strikes to service NI = 0,004000', 'Strikes near the service NI = 0,400000', and 'Strikes to adj structure Nadj = 0,000000'. An 'Update' button is located below these fields. On the right, a text box provides instructions: 'Jupiter NG can use up to 16 Service lines for each structure. Any one of them can be used by one or more Zones. Please note that, to be used by a Zone calculation, you must click on the button 'Update', above, after changing some parameter and before moving to another Service on the table.' Below the 'Update' button, there are tabs for 'Incidence', 'SPD', 'Internal', 'Injuries', 'Line Type', 'Protection cost', and 'Loss of Services'. The 'Line Type' tab is selected, showing dropdown menus for 'Installation:' (Buried), 'Line type:' (HV power (with HV/LV transformer)), and 'Environment:' (Suburban), each with a corresponding 'factor' field. A 'Description:' field with a 'Copy' button is on the right. The status bar at the bottom shows: 'Master file: en_hospital_1204.j12', 'Structure: Hospital ed. 2', 'Solution # 1 Original', and 'Standard: IEC 62305 ed.2'.

Données et aperçu des zones

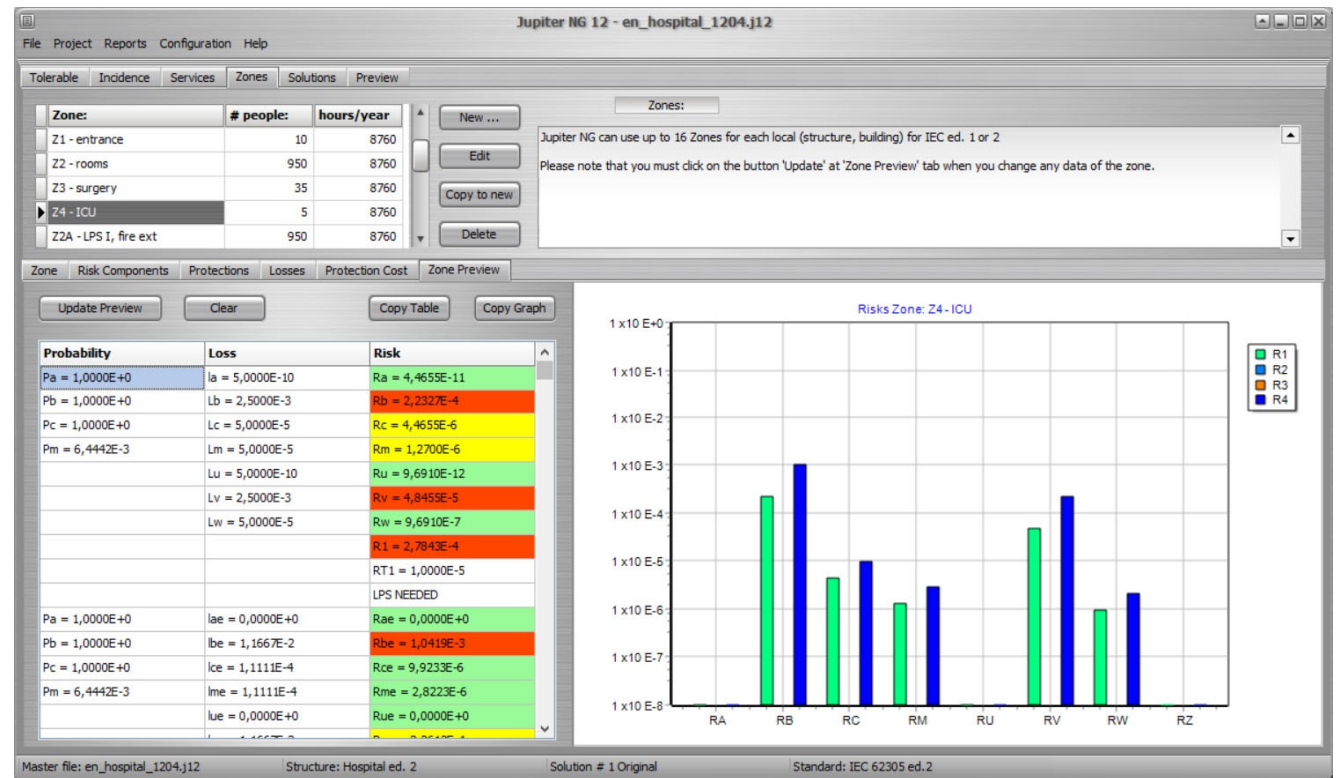
Dans cet écran :

Entrer:

- nouvelles zones (ou modifier)
- paramètres de zone
- description et image de la zone
- structure adjacente (le cas échéant)

Jupiter:

- aperçu des risques de zone



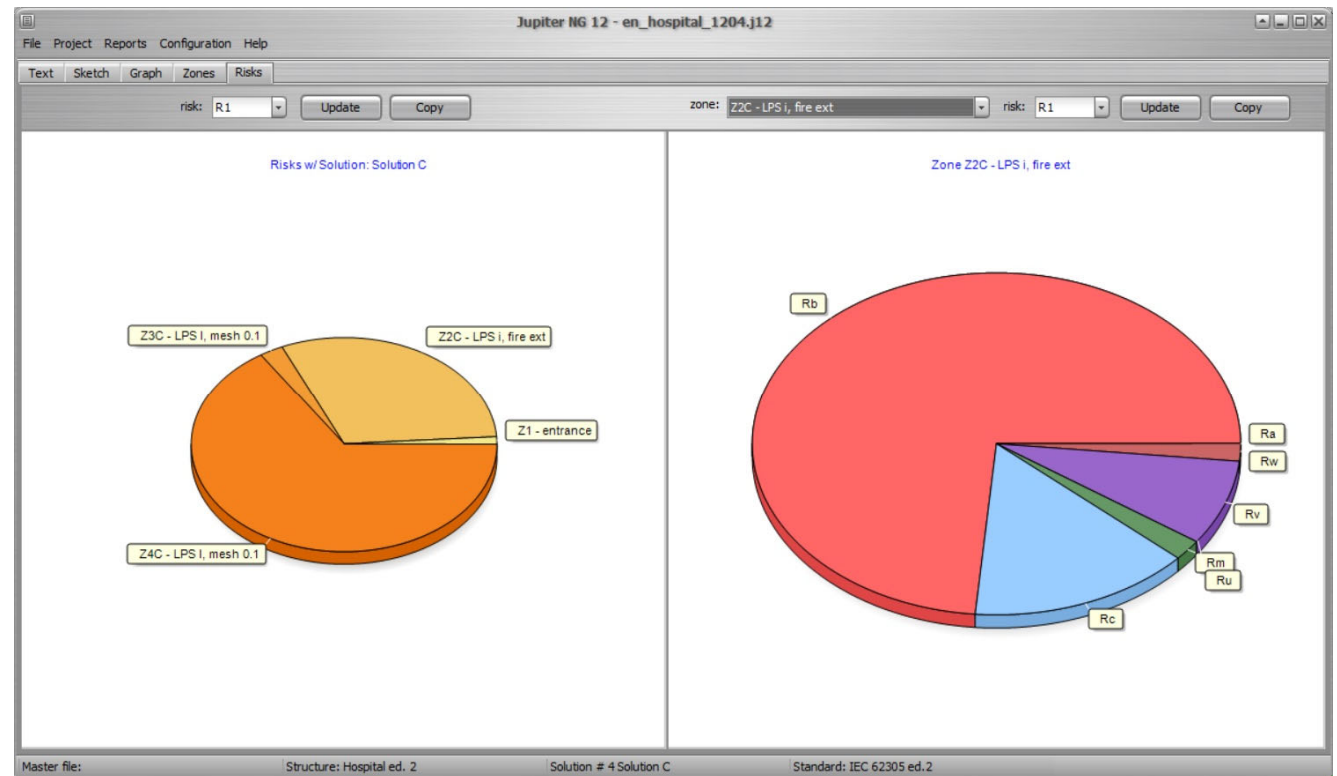
Rapports de zone

Dans cet écran :

- Entrer:
- sélectionner zone
- sélectionner le graphique
- sélectionner les risques

Jupiter:

- aperçu des risques de zone



Rapports : solutions 1

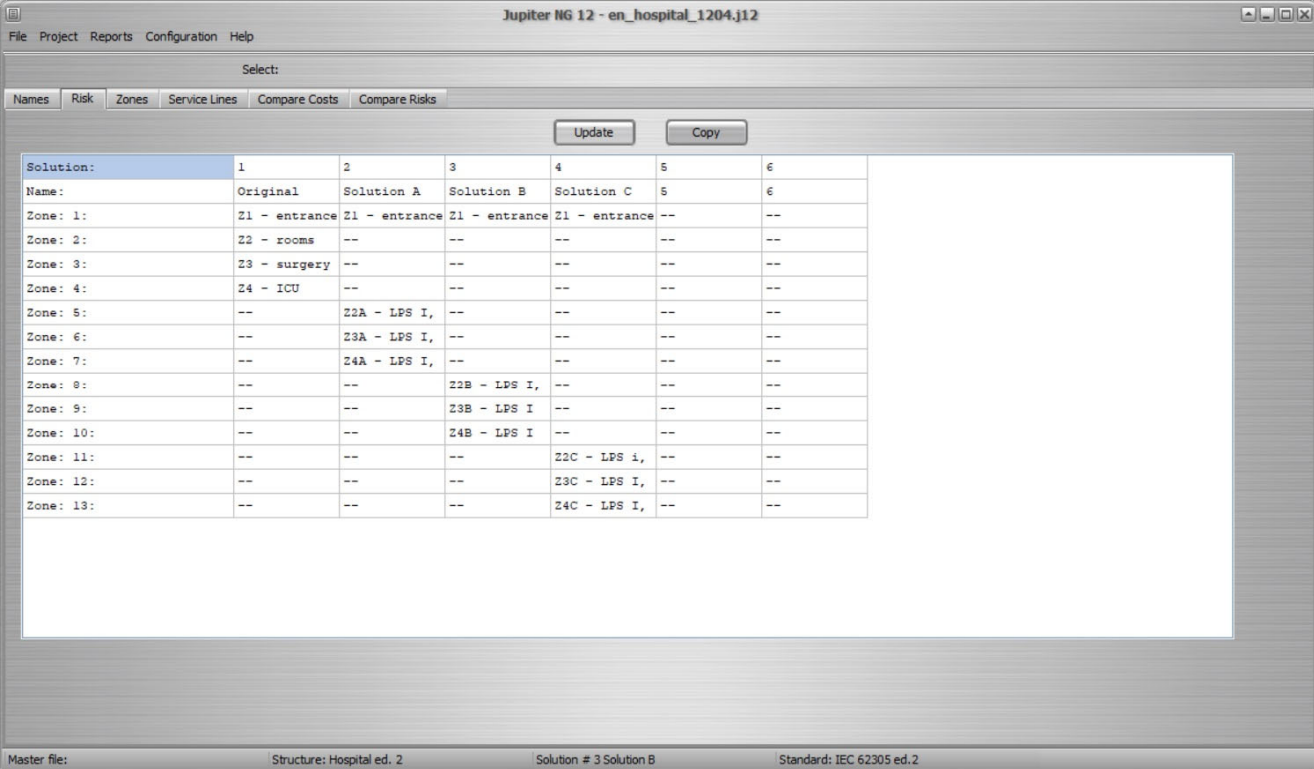
Dans cet écran et les suivants :

Entrer:

- sélectionnez Solutions à comparer

Jupiter:

- zones de chaque solution
- lignes de services
- aperçu des risques de la solution
- risques comparatifs
- coûts comparatifs



The screenshot shows the Jupiter NG 12 software interface. The window title is "Jupiter NG 12 - en_hospital_1204.j12". The menu bar includes "File", "Project", "Reports", "Configuration", and "Help". Below the menu bar is a "Select:" section with tabs for "Names", "Risk", "Zones", "Service Lines", "Compare Costs", and "Compare Risks". There are "Update" and "Copy" buttons. The main area contains a table with the following data:

| Solution: | 1 | 2 | 3 | 4 | 5 | 6 |
|-----------|---------------|---------------|---------------|---------------|----|----|
| Name: | Original | Solution A | Solution B | Solution C | 5 | 6 |
| Zone: 1: | Z1 - entrance | Z1 - entrance | Z1 - entrance | Z1 - entrance | -- | -- |
| Zone: 2: | Z2 - rooms | -- | -- | -- | -- | -- |
| Zone: 3: | Z3 - surgery | -- | -- | -- | -- | -- |
| Zone: 4: | Z4 - ICU | -- | -- | -- | -- | -- |
| Zone: 5: | -- | Z2A - LPS I, | -- | -- | -- | -- |
| Zone: 6: | -- | Z3A - LPS I, | -- | -- | -- | -- |
| Zone: 7: | -- | Z4A - LPS I, | -- | -- | -- | -- |
| Zone: 8: | -- | -- | Z2B - LPS I, | -- | -- | -- |
| Zone: 9: | -- | -- | Z3B - LPS I | -- | -- | -- |
| Zone: 10: | -- | -- | Z4B - LPS I | -- | -- | -- |
| Zone: 11: | -- | -- | -- | Z2C - LPS i, | -- | -- |
| Zone: 12: | -- | -- | -- | Z3C - LPS I, | -- | -- |
| Zone: 13: | -- | -- | -- | Z4C - LPS I, | -- | -- |

At the bottom of the window, the status bar shows: "Master file: Structure: Hospital ed. 2 Solution # 3 Solution B Standard: IEC 62305 ed.2".

Rapports : solutions 2

Dans cet écran et les suivants :

Entrer:

- sélectionnez Solutions à comparer

Jupiter:

- zones de chaque solution
- lignes de services
- aperçu des risques de la solution
- risques comparatifs
- coûts comparatifs

The screenshot displays the Jupiter NG 12 software interface, titled "Jupiter NG 12 - en_hospital_1204.j12". The interface includes a menu bar (File, Project, Reports, Configuration, Help) and a "Select:" section with tabs for Names, Risk, Zones, Service Lines, Compare Costs, and Compare Risks. Below these are buttons for Clear, Update, and Copy. The main area is a table with 10 columns representing different zones and rows for various attributes.

| Zone: | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|------|
| Name: | Z1 - entrance | Z2 - rooms | Z3 - surgery | Z4 - ICU | Z2A - LPS I, | Z3A - LPS I, | Z4A - LPS I, | Z2B - LPS I, | Z3B - LPS I | Z4B |
| Nz | 10 | 950 | 35 | 5 | 950 | 35 | 5 | 950 | 35 | 5 |
| Tz | 8760 | 8760 | 8760 | 8760 | 8760 | 8760 | 8760 | 8760 | 8760 | 8760 |
| LPS installed: | Structure not | Structure not | Structure not | Structure not | Structure pro | Structure pro | Structure pro | Structure pro | Structure pro | Str |
| Security measures | | | | | | | | | | |
| Physical damages: | Hospital, hot | Hospital, hot | Hospital, hot | Hospital, hot | Hospital, hot | Hospital, hot | Hospital, hot | Hospital, hot | Hospital, hot | Hos |
| Internal systems: | Other parts o | Other parts o | Intensive car | Intensive car | Other parts o | Intensive car | Intensive car | Other parts o | Intensive car | Int |
| Type of surface: | Agricultural, | Asphalt, lino | Asphalt, lino | Asphalt, lino | Asphalt, lino | Asphalt, lino | Asphalt, lino | Asphalt, lino | Asphalt, lino | Asp |
| Provisions taken: | | | | | | | | | | |
| Risk of fire / amount: | explosion / Z | explosion / Z | explosion / Z | explosion / Z | explosion / Z | explosion / Z | explosion / Z | explosion / Z | explosion / Z | exp |
| Special hazard: | no special ha | Difficulty of | Difficulty of | Difficulty of | Difficulty of | Difficulty of | Difficulty of | Difficulty of | Difficulty of | Dif |
| Cultural value: | 1000000 | 1000000 | 1000000 | 1000000 | 1000000 | 1000000 | 1000000 | 1000000 | 1000000 | 100 |
| Animals value: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Building value: | 0 | 70000000 | 2000000 | 1000000 | 70000000 | 2000000 | 1000000 | 70000000 | 2000000 | 100 |

At the bottom of the window, the status bar shows: Master file: Structure: Hospital ed. 2, Solution # 3 Solution B, Standard: IEC 62305 ed.2

Rapports : solutions 3

Dans cet écran et les suivants :

Entrer:

- sélectionnez Solutions à comparer

Jupiter:

- zones de chaque solution
- lignes de services
- aperçu des risques de la solution
- risques comparatifs
- coûts comparatifs

The screenshot shows the Jupiter NG 12 software interface. The title bar reads "Jupiter NG 12 - en_hospital_1204.j12". The menu bar includes "File", "Project", "Reports", "Configuration", and "Help". Below the menu bar, there are tabs for "Names", "Risk", "Zones", "Service Lines", "Compare Costs", and "Compare Risks". The "Service Lines" tab is active. There are "Clear" and "Update" buttons. The main area contains a table with 8 columns representing different solutions and rows for various attributes.

| Service: | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-----------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Name: | Power origina | Telecom origi | Power SPD 1.5 | Telecom SPD 1 | Power SPD 3x | Telecom SPD 3 | Power SPD 2x | Telecom SPD 2 |
| Installation: | Buried | Buried | Buried | Buried | Buried | Buried | Buried | Buried |
| Line type: | HV power (wit | LV power, tel | HV power (wit | LV power, tel | HV power (wit | LV power, tel | HV power (wit | LV power, tel |
| Environment: | Suburban | Suburban | Suburban | Suburban | Suburban | Suburban | Suburban | Suburban |
| physical damage LF: | Gas, water, | TV, telecommu | Gas, water, | TV, telecommu | Gas, water, | TV, telecommu | Gas, water, | TV, telecommu |
| failure of internal system: | Gas, water, | TV, telecommu | Gas, water, | TV, telecommu | Gas, water, | TV, telecommu | Gas, water, | TV, telecommu |
| External line type / Conne: | Shielded buri | Shielded buri | Shielded buri | Shielded buri | Shielded buri | Shielded buri | Shielded buri | Shielded buri |
| SPD: | No coordinate | No coordinate | Other, lower | Other, lower | Other, lower | Other, lower | Other, lower | Other, lower |
| Type of internal wiring: | Unshielded ca | Unshielded ca | Unshielded ca | Unshielded ca | Unshielded ca | Unshielded ca | Unshielded ca | Unshielded ca |
| Withstand voltage Uw: | 25 | 15 | 25 | 15 | 25 | 15 | 25 | 15 |
| Protection level: | No SPD | No SPD | I | I | I | I | I | I |
| FEB for "Better than I": | | | | | | | | |
| Routing, shielding, bondin: | Shielded aeri | Shielded aeri | Shielded aeri | Shielded aeri | Shielded aeri | Shielded aeri | Shielded aeri | Shielded aeri |
| Line type: | Power line | Telecom line | Power line | Telecom line | Power line | Telecom line | Power line | Telecom line |

At the bottom of the window, the status bar shows: "Master file: Structure: Hospital ed. 2 Solution # 3 Solution B Standard: IEC 62305 ed.2"

Rapports : solutions 4

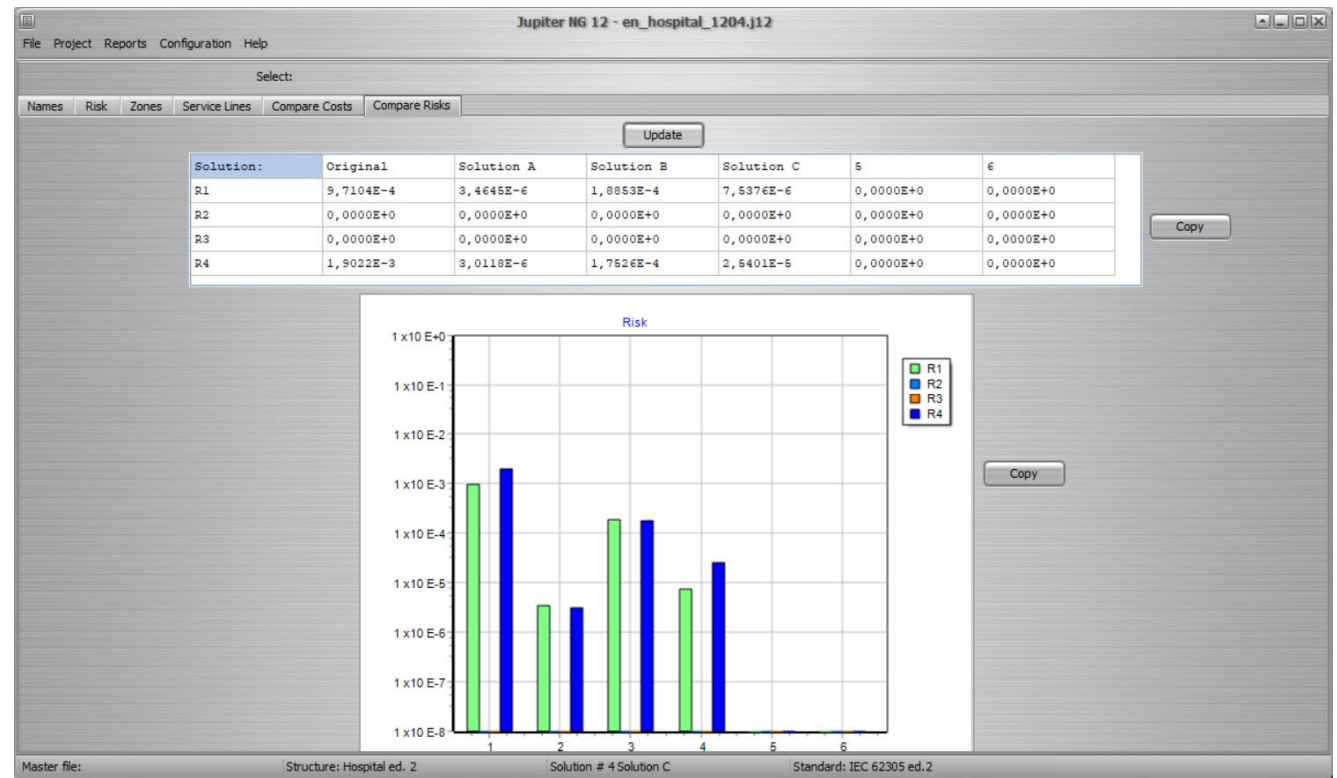
Dans cet écran et les suivants :

Entrer:

- sélectionnez Solutions à comparer

Jupiter:

- zones de chaque solution
- lignes de services
- aperçu des risques de la solution
- risques comparatifs
- coûts comparatifs



Rapports : solutions 5

Dans cet écran et les suivants :

Entrer:

- sélectionnez Solutions à comparer

Jupiter:

- zones de chaque solution
- lignes de services
- aperçu des risques de la solution
- risques comparatifs
- coûts comparatifs

