


File : **New.nps**

Customer:

Date: **04-2022**

Project : **IVUC ASTORKA,Brno**

Building: **IVUC ASTORKA,Brno**

LIGHTNING ACTIVITY	By City: Aucun By lightning density Ng : 2.70		
STRUCTURE	Length L(m) : 46	Width W(m) : 23	Height (m) : 26 Chimney/Tower height (m) 0
ELECTRIC LINE	Electric line Underground		<p>Variables</p> <p>Calculations of the constituents of the risk</p> <p>Equivalent exposition surface (m²)</p> <p>Building Ad1 = 3.094E+004</p> <p>Tower/Chimney Ad2= 0.000E+000</p> <p>Structure Ad = 3.094E+004</p> <p>Line Ai = 2.000E+004</p> <p>Probability of dangerous events</p> <p>On the structure N= 4.18E-002</p> <p>On the line Ni = 0.00E+000</p> <p>Probability of physical damage</p> <p>On the structure P= 1.00E-001</p> <p>On the line Pi = 5.00E-002</p> <p>Resultant risk</p> <p>R1: Loss of human life = 2.09E-006</p> <p>R2: Loss of service = 0.00E+000</p> <p>R3: Loss of cultural heritage = 4.18E-007</p> <p>Bearable risk (normative)</p> <p>R1 < 1.0E-5, R2 < 1.0E-3, R3 < 1.0E-4</p>
RELATIVE LOCATION OF THE STRUCTURE	Surrounded by similar or lower structures		
DANGER FOR THE PERSONS	Medium risk of panic (< 1000 persons)		
FIRE RISK	Limited		
OCCUPATION OF THE STRUCTURE	Normally occupied		
SERVICE	No		
LIGHTNING COND.	Necessary Niveau protection III		
SURGE ARRESTER	Necessary Characteristics I imp >= 12.5 kA		
RESULT OF THE RISK ASSESSMENT	<p>R1: Loss of human life THE PROTECTION IS SATISFACTORY</p> <p>R2: Loss of service THE PROTECTION IS SATISFACTORY</p> <p>R3: Loss of cultural heritage THE PROTECTION IS SATISFACTORY</p>		<p>Certification</p>  <p>Qualifoudre INERIS 051166662001</p>