

TRANSPORT OF DANGEROUS GOODS THROUGH THE  
TUNNEL  
SVETA TRI KRALJA

– BOOK OF REGULATIONS –

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**Regulation:**Transport of dangerous goods through the tunnel STK

**Nomenclature:** HOP-ZOP-PRAV\_01; Version: 1.6, Released: 28/10/2019

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Pursuant to Article 10, Law on Fire Protection (Croatian National Gazette No 92/10) The Director of the Company on 28.10.2019 amends the Book of regulations adopted on 01.07.2013

## **BOOK OF REGULATIONS ABOUT TERMS AND MODES OF DG TRANSPORT THROUGH THE TUNNEL SVETA TRI KRALJA**

### **1. BASIC PROVISIONS**

#### **Article 1.**

This Book of regulations about terms and modes of DG transports through the tunnel Sveta Tri Kralja (in further text: The book of regulations) defines in details respective provisions from the Fire protection Act (Croatian National Gazette No 92/10) and the Act about transport of dangerous goods (Croatian National Gazette 79/07) which regulates important issues related to prevention of harmful events and its consequences which can appear during transport of dangerous goods through tunnels longer than 500m.

#### **Article 2.**

Provisions from this Book of regulations are obligatory for all participants in transport and ensuring safety during transport of dangerous goods through the tunnel Sveta Tri Kralja, with the purpose and goal of its implementation as follows:

- prevent uncontrolled leakage or spillage of dangerous goods and creation of fire, explosion or other harmful events and their fast spreading through the tunnel in case of traffic accidents and other incidents on vehicles used for transport of dangerous goods
- ensure early detection, timely and accurate report about a harmful event after its appearance
- Ensure success in fast elimination of danger caused by harmful events and its consequences, and in saving people lives and property endangered by the event.

#### **Article 3.**

This Book of regulations for the tunnel Sveta Tri Kralja defines:

- restrictions and time frame for DG transport through the tunnel Sveta Tri Kralja for which special conditions are proscribed

- basic safety conditions that must be fulfilled by transporting companies/truck operators in order to obtain approval for transport of dangerous goods through the tunnel
- modes for DG transport through the tunnel

#### **Article 4.**

This regulation is an integral part of the collection of documents in the field of fire protection.

## 2. RESTRICTIONS FOR DG TRANSPORT THROUGH THE TUNNEL SVETA TRI KRALJA

### Article 5.

Decision on determination parking spaces and restrictions for the DG transport on public roads (Croatian National Gazette No 114/12) based on risk analyses, produced in line with provisions from the Act about transport of dangerous goods and Appendix A and B of European Agreement on Road Transport of Dangerous Goods, and classifies the tunnel Sveta Tri Kralja.

Road designation	Name and length	Tunnel code	During the year	During the day	Restriction
A2	Sveta Tri Kralja 1740 m	A	From 01.09. to 30.06.	24 hours	No restrictions
		D(D/E)	from 01.07. to 31.08.	24 hours	Announcement for escort of DG with tunnels' code D, E

During announced escort of DG transport through the tunnel Sveta Tri Kralja, alternative traffic direction is: A2 – interchange Krapina – D1 – interchange Đurmanec – A2 and vice versa.

### Article 7.

Transport of following dangerous goods (table below) is forbidden in the period between 01.07.-31.08. through the tunnel Sveta Tri Kralja without previous stop of a vehicle with DG transport on the places marked for acceptance and control of such vehicles, and continuation of transport with escort of firefighting vehicle driving 50m behind:

Class 1:	- Compatibility groups A & L ; - Subgroup 1.1,1.1 & 1.5 (beside compatibility groups A & L ); and subgroup 1.3 (Compatibility groups H & J); - Subgroup 1.3 (Compatibility groups C & G);
Class 2:	Classification codes F,FC,T,TF,TC,TO,TFC & TOC
Class 3:	Classification codes D ( UN no. 1204,2059,3064,3343,3357 & 3379);
Class 4.1:	- Classification codes D & DT; -Self-reacted substances, type B (UN no. 3221,3222,3231 & 3232); - Self-reacted substances, type C,D,E & F; & UN Br. 2956,3241,3242 & 3251;
Class 5.2:	Organic peroxides, type B (UN no. 3101, 3102, 3111 & 3112). Organic peroxides, type C,D,E & F;

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Class 6.1:	Packaging group of classification codes TF1 & TFC; and toxic on inhalation (UN no. 3381 to 3390);
Class 7:	UN no. 2977 & 2978
Class 8:	Packaging group of classification codes CT1;CFT & COT;
Class 9:	Classification codes M9 & M10.
<b>When transported in tanks:</b>	
Class 2:	Classification codes F,TF & TFC Classification codes 2A,2O,3A & 3O and classification Codes that contain letter T or groups of letters TC,TO & TOC;
Class 3:	
Class 4.2:	Packaging group I & II;
Class 4.3:	Packaging group I & II;
Class 5.1:	Packaging group I
Class 6.1:	Packaging group I & II; Packaging group III for Classification code TF2;
Class 8:	Packaging group I with classification codes CT1,CFT,COT,CF1,CFT & CW1 Packaging group II for Classification codes CF1 & CFT
Class 9:	classification codes M2 & M3

### Article 8.

Goods with marked tunnels' code B; B1000C; B/D; B/E; C; C500D; C/D; C/E; D; D/E are forbidden to be driven through the tunnel Sveta Tri Kralja without escort between 01.07. – 31.08.

<b>Tunnels' code considering restrictions for some individual transports</b>	<b>Restriction</b>
<b>B</b>	Passage forbidden through tunnels of category B,C,D & E
<b>B1000C</b>	Transport where the total net weight of Explosives per transport unit -exceeds 1,000 kg: Passage forbidden through tunnels of category B,C,D & E -does not exceed 1,000 kg: Passage forbidden through tunnels of category C,D & E
<b>B/D</b>	Transport in tanks: Passage forbidden through tunnels of category B,C,D & E Other carriage : Passage forbidden through tunnels of category D & E
<b>B/E</b>	Transport in tanks: Passage forbidden through tunnels of category B,C,D & E; <b>Other Transport: Passage forbidden through tunnels of category E</b>
<b>C</b>	Passage forbidden through tunnels of category C,D and E
<b>C500D</b>	Transport where the total net weight of Explosives per transport unit -exceeds 5000 kg: Passage forbidden through tunnels of category C,D & E - does not exceed 5000 kg: Passage forbidden through tunnels of category D & E
<b>C/D</b>	Transport in tanks : Passage forbidden through tunnels of category C,D & E; Other Transport: Passage forbidden through tunnels of category D & E
<b>C/E</b>	Transport in tanks: Passage forbidden through tunnels of category C,D & E; <b>Other Transport: Passage forbidden through tunnels of category E</b>

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<b>D</b>	Passage forbidden through tunnels of category D & E
<b>D/E</b>	Transport in bulk or in tanks: Passage forbidden through tunnels of category D & E; <b>Other Transport: Passage forbidden through tunnels of category E</b>
<b>E</b>	<b>Passage forbidden through tunnels of category E</b>
<b>-</b>	<b>Passage allowed through all tunnels ( for UN numbers 2919 &amp; 3331)</b>

### 3. TRANSIT OF DG TRANSPORT WITHOUT LIMITATIONS

#### Article 9.

Transport of all dangerous goods marked according to ADR is allowed without limitations in the period between from 01.09. to 30.06 through the tunnel Sveta Tri Kralja.

#### Article 10.

**In the period between 01.07 -31.08** transport without limitations is allowed for all dangerous goods that are not listed in the Article 7, or goods marked with tunnels **code B/E; C/E and D/E** (transport of other goods only for E marked with red in the Article 8.) and those marked with tunnels' **code E**, and those without code markings.



#### 4. BASIC SAFETY CONDITIONS FOR DG TRANSPORT THROUGH THE TUNNEL SVETA TRI KRALJA THROUGHOUT DURATION OF RESTRICTIONS

##### **Article 11.**

Transport of DG through the tunnel Sveta Tri Kralja will be granted if the transporting company (carrier), vehicle that transports DG or a driver meet the following requirements:

- if a transporting company/truck operator has a special approval for transport of explosives, radioactive and poisoned substances
- if a transporting vehicle is technically accurate and marked according ADR and equipped according the Law with additional equipment
- if the transport of dangerous goods has been properly ensured at an Insurance Company for any eventual damages which could be created towards third parties with an Insurance policy as a proof
- When the driver has professional education for transport of dangerous goods which has to be proved by an ADR certificate.
- if the driver has a document for transport of dangerous goods, to prove which type of dangerous goods he transports, in what amount, together with instructions for treatment in case of accident
- if the carrier requested and received an Approval for dangerous goods transport through the tunnel Sveta Tri Kralja and obtained adequate escort during that transport.
- If the escorting vehicle is equipped in a proscribed way

## 5. METHODS OF TRANSPORTING DANGEROUS GOODS THROUGH THE TUNNEL SVETA TRI KRALJA DURING RESTRICTION IS ON POWER

### Article 12.

Only individual transport of explosive substances through the tunnel Sveta Tri Kralja is allowed, as well as an individual and bulk transport of other dangerous goods from the Article 6 of this Book of regulations.

Simultaneous transport of explosives and other dangerous goods through the tunnel Sveta Tri Kralja is not allowed, as well as simultaneous transport of dangerous goods in both directions through mono-tube tunnel is not allowed.

When bulk transport is organized, maximum 3 transporting units can participate, an obligatory escort with small technical fire fighting vehicle with 2 firemen (one of them must be a professional fireman) and an additional vehicle is required.

Transport of dangerous goods is forbidden towards south after entrance from the interchange Đurmanec (in Zagreb direction).

### 5.1 Announcement of dangerous goods transport

#### Article 13.

The Carrier is obliged to announce transport of dangerous goods at least 60 minutes before arriving at the position for acceptance and vehicle control.

Transport of dangerous goods should be announced by phone to the Traffic Control Operator on duty in the O&MC Krapina on the contact number + 385 98 9843005 or + 385 49 382035.

As part of security measures in the event of reporting incidents and accidents, traffic accidents, etc. calls from, i.e. communications with operators in Traffic Control at COKP Krapina are recorded, since the phone is connected to the security and emergency services and communication with the centre 112.

#### Article 14.

In the announcement of transport of dangerous goods, a Carrier is obliged to give basic information about the Carrier, vehicle, dangerous substance, driver and escorting vehicle:

- For the Carrier: Company name, company seats and the address
- registration plate number from the vehicle which is performing transport of dangerous goods and registration plate number from the escorting vehicle as well
- tunnels' code, danger code, UN identification number, the amount of dangerous substance
- direction from which the transport of dangerous goods is coming
- name and family name of the driver
- no. of driver's ADR ID card
- information about a private or legal entity who performs prescribed escort, information about the vehicle used to provide escort, or respectively a request issued towards the Company for organizing escort

## 5.2 Places for acceptance and control of vehicles for dangerous goods transport

### Article 15.

Places for acceptance and control of vehicles for dangerous goods transport are areas designed and marked with prescribed traffic signalization, specially prepared for this purpose, and they are positioned in direction Zagreb – Macelj on the northern part of the PUO Sv.Križ Začretje – east (on the parking space after the gas station's main building); and for direction Macelj-Zagreb on the PUO Lepa Bukva – west.

After arrival on the place for acceptance and control of vehicles for dangerous goods transport, the driver of vehicle for transport of dangerous goods is obliged to contact the Operational centre in O&MC Krapina on telephone number +385 98 9843005 and +385 49 382 035, where he will receive further instructions.

As part of security measures in the event of reporting incidents and accidents, traffic accidents, etc. calls from, i.e. communications with operators in Traffic Control at COKP Krapina are recorded, since the phone is connected to the security and emergency services and communication with the centre 112.

### 5.3 Issuance of the Approval for transport of dangerous goods through the tunnel Sveta Tri Kralja

#### Article 16.

The Carrier is obliged to stop on places for acceptance and control of vehicles for dangerous goods transport, and wait for an Authorized Company's employees who will implement a further procedure with a goal to ensure safe transport of dangerous goods through the tunnel Sveta Tri Kralja.

#### Article 17.

Upon arrival on the place for acceptance and control an Authorized Company's employee has to determine the following:

- If the Carrier fulfils all conditions for safe transport of dangerous goods through the tunnel Sveta Tri Kralja, as defined in the Article 7 of this Book of regulations, the Approval for transport of dangerous goods will be issued.
- If the Carrier does not fulfil conditions for safe transport of dangerous goods through the tunnel Sveta Tri Kralja tunnel, the Approval for transport dangerous goods will not be issued, but will undertake adequate actions to ensure that a Transporting company/truck operator will perform transport of dangerous goods in a safe way using alternative traffic direction.

A Form for the Approval for transport of dangerous goods through the tunnel Sveta Tri Kralja is enclosed to this Book of regulations and makes its consistent part.

A Carrier that does not stop on the Place for acceptance and vehicles control, and passes through the tunnel without an Approval for transport of dangerous goods, will be recorded and his action will be reported to the Police in charge.

### 5.4 Ensuring escort to transports of dangerous goods through the tunnel Sveta Tri Kralja

#### Article 18.

Prescribed escort for transport of dangerous goods through the tunnel Sveta Tri Kralja must be ensured by a Carrier.

Prescribed escort can be performed by a vehicle which fulfils general conditions from the Article 82, paragraph 2 from the Act about transport of dangerous goods, and which is equipped with equipment and means for firefighting and human rescue in case of traffic accidents, and the driver of an escorting vehicle must be qualified for performing firefighting duties.

Even in the case when a Carrier has ensured its own escort, he is obliged to officially request the Approval for transport of dangerous goods through the tunnel Sveta Tri Kralja.

### **Article 19.**

In the case if a Carrier does not have organized own prescribed escort, while announcing such transport a request for providing escort for transport of dangerous goods can be issued towards the Company. The Company will ensure a prescribed escort or, in case if that is not possible, will instruct a Carrier to provide transport of dangerous goods using alternative traffic direction.

An escort in direction south (towards Zagreb) starts from PUO Lepa Bukva where EROC's employees must check the Vehicle for accuracy, issue an Approval and perform escort of transport of dangerous goods through the tunnel Sveta Tri Kralja. Escort in direction north (towards Macelj) is performed in a following way: When the transport of dangerous goods arrives on the PUO Sveti Križ Začretje – east, a driver has to contact the Operator on duty from the O&MC Krapina. The vehicle is sent to the exit on the interchange Krapina where EROC employees perform the control of the vehicle, issue an approval and perform the escort through the tunnel Sveta Tri Kralja. Vehicles which transport dangerous goods arriving from direction Krapina on the interchange Krapina and have intention to go towards north (direction Macelj) will be stopped on the Place predicted for that, near toll plaza Krapina (marked with traffic signalization).

### **Article 20.**

During transporting dangerous goods through the tunnel Sveta Tri Kralja, the driver of the vehicle which transport dangerous goods, together with the driver of escorting vehicle are obliged to perform transport and escort in a way prescribed by the Act about transport of dangerous goods.

## 6. FINAL PROVISIONS

### Article 21.

For the interpretation of this Book of regulation Company's Management Board is authorized.

### Article 22.

The Management Board is obliged to ensure production of all enclosures to this Book of regulations needed for its implementation within 15 days from the day of its issuance.

### Article 23.

Changes and amendments to this Book of regulations shall be done in a way and by the procedure defined for its adoption.

### Article 24.

This Book of rules shall be published on the notice board at the headquarters of the Company and shall enter into force on the day following its publication.

**DIRECTOR:**

**HENRI SKIBA**

  
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## 7. REVISION HISTORY

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## 8. APPROVALS

Complied by (Name)	Title
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Reviewer (Name)	Title
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Approver (Name)	Title	Date approved
Henri Skiba	Director	28/10/2019

## 9. APPENDIXES

- **Form 1.**

Approval for transport of dangerous goods through the tunnel Sveta Tri Kralja

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