



TITLE OF THE TENDER:

**“PROCUREMENT OF EQUIPMENT FOR
THE MODIFICATION OF THE FIRE
DETECTION SYSTEMS IN THE METRO
STATIONS ON LINES 2 & 3 AND THEIR
INTERFACE WITH THE AUTOMATIC
FARE COLLECTION SYSTEM (AFCS) –
OASA RFP-297/16**

**CLARIFICATIONS
DOCUMENT**

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This clarifications document is issued in accordance with the stipulations in paragraph 7.3 of the Invitation to Tender and incorporates responses to question submitted by the bidders. The content of the Clarifications Document is viewed as an integral part of the Invitation to Tender.

RESPONSES TO QUESTIONS

Question 1

List of installed equipment and the respective data sheets for the Base Project (detectors, inputs/outputs, Fire Alarm Panels - FAP).

Response 1

All available information is attached: Περιλαμβάνουν:

Question 2

Information regarding the involvement of the FAP in the fire extinguishing method (base project):

- a) Are there any separate fire extinguishing panels, or does the FAP also serve as a fire extinguishing panel?
- b) Will fire extinguishing control continue to function if the existing fire detection panel is abolished?
- c) In case the FAP is replaced, which are the new standards that the new system must comply with as far as fire extinguishing is concerned?

Response 2

- a) The Fire detection panel also serves as a fire extinguishing panel.
- b) No, it will not continue to function.
- c) Standard EN 12094-1 must be adhered to.

Question 3

Paragraphs 1.2 and 1.3 stipulate that cooperation with the original installer is required. If the panel is replaced or if an additional panel is installed, are we still required to cooperate with the original installer? (as regards the base project)

If cooperation is mandatory:

- I. Provide the details of the involved companies and their current contact information
- II. ATTIKO METRO S.A. (AM) is to provide guarantees about the proper communication and cooperation with the involved companies (obtaining all necessary information through AM).

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Response 3

In case a FAP is replaced or an additional one is installed, cooperation with the original installer is not generally required; however, all current functions and interfaces with other systems must be absolutely ensured (e.g. with ventilation - HVAC, BACS, PRCS). If this procedure requires the cooperation of the original installer for the sake of ensuring the safe operation of the new or additional FAP, this must be implemented through AM.

- I) The details of the Company are as follows: GEORGAKAKIS SECURITY 94, Amaroussiou – Halandriou Ave., 15125 Maroussi, tel. 2106542897, which is the successor of the Company GEORGAKAKIS S.A. which was the installer of the Fire Detection system in the Base Project stations.
- II) AM concurs.

Question 4

A detailed list of interfaces is necessary for the fire detection system of the Base Project.

Response 4

The fire detection system of the Base Project interfaces with the following systems:

- i) The ventilation and HVAC systems in order to activate/deactivate the fans and the motorized dampers in case of fire.
- ii) The fire dampers which are activated in case of a fire to isolate the various areas.
- iii) The BACS system which displays all fire dampers and commands related to the deactivation of fans.
- iv) The Power Remote Control System (PRCS), which receives specific local signals (general alarm, general fault, alarm inergen station) and from intermediate shafts or recesses (alarm shaft, alarm recess etc.) and transmits them to the PRCS system in the OCC.

Question 5

Please clarify whether the Base Project panels are compatible with standard EN54-14.

If not, please clarify the following:

- I. Is it accepted to expand these panels in order to control the gates?
- II. In order to activate an additional FAP to control the gates, can we utilize additional output cards or program spare outputs?
- III. In order to transmit the alarm information to a new FAP (transmitting commands to the gates), is it accepted to utilize already installed / programmed for other functions output commands of the existing FAP, i.e. parallel transmission of information?
 - If it is accepted, will it be supervised and controlled by the existing FAP panel? If not supervised and controlled by the existing FAP panel, is the Contractor permitted to utilize (the aforementioned parallel transmission of information) as a single input for activating the gate release scenario?

Response 5

No, they are not.

- i) The expansion of these panels is not accepted.

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ii) The addition of output cards is not accepted. The programming of spare outputs is accepted.

iii) Not accepted.

Question 6

Should the Contractor opt to replace the FAP panel or to use an additional panel in parallel to the existing one, is it possible for this equipment to be obtained from a manufacturer other than the manufacturer of the installed panel?

Response 6

Yes, resorting to another manufacturer is accepted.

Question 7

Please confirm that interfacing with three systems is exclusively implemented via contacts (digital inputs/outputs). Otherwise, please provide the necessary information about the data transmission method.

Response 7

It is confirmed.

Question 8

Would it be possible to offset / replace the preliminary SIL2 safety analysis report required to be prepared by the Fire Detection Contractor with the provision of materials complying with EN54-14 and Vds?

Response 8

Yes, it would. It is pointed out that SIL-2 safety level applies to the entire system comprising the gates – fire detection – BACS – gate feeding switchboard.

Question 9

Kindly examine the possibility of extending the deadline for the submission of offers for the Base Project due to the complexity of the required solution and the importance of providing the responses to our questions.

Response 9

The deadline for the submission of offers remains unchanged, because any delay in the progress of this Contract shall cause a delay for the already installed Contractor of OASA for the AFCS system.

Question 10

We believe that the required average turnover stipulated in the Invitation to Tender and specifically in paragraph 12.2.1 is excessive (minimum credit and financial competence preconditions – section E 1,300,000€ - the amount of 700,000€ would be sufficient).

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Response 10

Paragraph 12.2.1 of the Invitation to Tender is amended as follows:

“Minimum preconditions for Credit and Financial Competence”

The Bidders are required to have a minimum average annual turnover during the last three fiscal years, or during the respective time period of operation, if this is less than the three-year period, per section as follows:

Section A: 110,000.00 Euros
Section B: 70,000.00 Euros
Section C: 79,000.00 Euros
Section D: 69,000.00 Euros
Section E: ~~4,300,000.00~~ 800,000.00 Euros”

Question 11

“1.1.5 The amendments to the above E/M systems and to their connections with the AFCS system will be followed by individual and combined tests, which will demonstrate that the original function of each E/M system has not been altered, but also that the new operational requirements are met after each system is connected with the AFCS”.

The original function and combined operations of each fire detection system shall be recorded (after tests) in an acceptance/delivery protocol signed by STASY S.A. and the Contractor, wherein the systems performance and functionality shall be shown. Afterwards, the Contractor shall proceed to the appropriate amendments, replacement of devices, programming etc., in order to accommodate the new functional requirements. This will be finally followed by individual and combined testing destined to demonstrate the unchanged original function of each involved system in accordance with the pertinent acceptance/delivery protocol, as well as the required functionality in order to accommodate the new requirements after the fire detection system is interfaced with the AFCS. Is this correct?

Response 11

AM concurs and points out that the relevant acceptance/delivery protocol shall be signed by AM, STASY S.A. and the Contractor, while the tests to be conducted in the attendance of all three parties shall cover cases of detecting a fire in various zones of each station, of damper activation, of Manual Call Points (MCP) activation etc.

Question 12

“1.1.6 Required shall be the supply of the warranty services, i.e. the required and qualified personnel, sufficient tools, test equipment, spare parts, etc., which will be necessary to repair or replace all faulty hardware and software”.

We believe that the provision of warranty services applies only to materials and devices that we shall have installed or replaced in the framework of the fire detection systems amendment. Is this correct?

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Response 12

AM concurs. The warrantee shall only cover the new equipment.

Question 13

“1.2 For all activities mentioned above, required shall be the cooperation with OASA’s Private Sector Partner (PSP) at technical and operational coordination levels, as well as with STASY S.A., since the systems to be modified must remain functional throughout the entire period, except for night hours maintenance works, and this shall be accomplished after a detailed technical and time scheduling”.

In the Base Project, where the installation of a new FAP is required, it is not possible not to lose the functionality of the fire detection for a certain time period. Please clarify.

Moreover, the Time Schedule does not take into account the number of stations and the particularities of the Base Project. In other words, a period of 22 to 33 days is foreseen for the completion of the works per station of the extensions where the addition of a central FAP is not required, while in the Base Project a period of only 9 days is foreseen for each station.

Response 13

AM has come to an agreement with the gate Contractor for a possible closure of the stations for approximately two days (with the exception of OMONIA, MONASTIRAKI and SYNTAGMA Stations). In this case, these time windows can be utilized.

The periods for the completion of the works in each station remain the same for all periods. In the overall duration of each section, the Contractor must take into account the following times: for design – review – approval, supply of materials which precede installation, as well as the time for the subsequent tests. In addition, the Contractor must take into account the required number of work crews, so as to respect the contractual times.

Question 14

“16.1 Warrantee Period Capital Spare Parts

The contract scope of the Supply shall include the Warrantee Period Capital Spare Parts required throughout the three-year warrantee period of the Supply for the correction of any faults, defects, bad workmanship and other deficiencies, for the smooth and continuous operation of the building automation and control systems (BACS). The Contractor shall assume the responsibility and the expenses for storing the warrantee period capital spare parts and shall be exclusively responsible for their availability”.

We also assume that this paragraph refers only to equipment that we shall have installed in the framework of the Fire Detection System amendment. Is this correct?

Response 14

AM concurs.

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Question 15

“22.2 The Contract Manager, who shall be a graduate Engineer with at least 10-years of experience in the Contract scope and have his seat in the Fire Detection systems manufacturing plant area.... The Contract Manager shall appoint the Contractor’s Responsible Person in Athens, who, among his other duties, shall monitor the execution of the tests and the commissioning of the Fire Detection Systems....

22.3 The “Contract” Manager and the Contractor’s Responsible Person in Athens shall be fully authorized by a proxy to represent the Contractor in technical issues. The same proxy shall also include a statement of these persons, whereby they accept their appointment and responsibilities.

22.4 The Contract Manager and the Contractor’s Responsible Person in Athens shall be responsible for the workmanlike, flawless and safe performance of works and for the introduction and implementation of the required measures for the safety and protection of personnel and any third party during the execution of the Supply against any damage caused to works and structures of third parties. In addition, they shall be responsible for the tests and the commissioning of the Fire Detection systems”.

Kindly clarify the responsibilities of the Contract Manager. In case of non workmanlike work execution, of labor accident or of damage to third parties by the Contractor, the Contract Manager (e.g. in Germany) shall be responsible. AM shall be covered by the insurance policy that the Contractor is required to conclude and the Contractor shall be generally responsible, as specified by the Law, for respecting the labor legislation, the safety and other regulations.

We propose the following solution: If there is no other way, we propose to have one engineer responsible only for the Base Project who shall possess experience in the Fire Detection systems manufactured by the manufacturer approving the Contractor’s design, since in any event substantial changes are required to achieve the interface between the Fire Detection and the AFCS systems. The manufacturer shall also approve the Contractor’s “As built” drawings. Please take into consideration that only the Base Project has a budget sufficient to cover the cost for a Contract Manager.

Response 15

Articles 22.2, 22.3 and 22.4 are re-phased as follows:

~~*“22.2 The Contract Manager, who shall be a graduate Engineer with at least 10-years of experience in the Contract scope and have his seat in the place where the contract is executed, Fire Detection ’manufacturing plant area... The Contract Manager shall appoint the Contractor’s Responsible Person in Athens, who, among his other duties, shall monitor the execution of the tests and the commissioning of the Fire Detection system.*~~

~~*22.3 The Contract Manager and the Contractor’s Responsible Person in Athens shall be fully authorized by a proxy to represent the Contractor in technical issues. The same proxy shall also include a statement of these persons, whereby they accept their appointment and responsibilities.*~~

~~*22.4 The Contract Manager and the Contractor’s Responsible Person in Athens shall be responsible for the workmanlike, flawless and safe performance of works and for the introduction and implementation of the required measures for the safety and protection of*~~

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personnel and any third party during the execution of the Supply against any damage caused to works and structures of third parties. In addition, he shall be responsible for the tests and the commissioning of the Fire Detection system.

Question 16

“1.2 Page 4: The amendment of the BACS systems and their connection with the AFCS shall take place via an independent contract”.

The amendment of the BACS systems must be implemented with absolutely no amendment to the interface between BACS and Fire Detection. Is this correct? In case there are changes to the interface between BACS and Fire Detection, the Fire Detection Contractor must be compensated on a cost-plus basis for any required extra work and materials.

Response 16

The BACS systems amendment shall be implemented without any amendment whatsoever to the existing interfaces between BACS and Fire Detection.

Question 17

“2.2 Designs

In order to prepare the above designs, the Contractor’s immediate cooperation with the following agents must be ensured:

- *OASA’s Contractor (TERNA – LG) who installs the access gates and the AFC system;*
- *An independent Contractor who shall amend the BACS system in the stations;*
- *The Operations Company STASY S.A., because the existing operating E/M systems may need to be amended in time windows to be specified by STASY S.A. without losing the functionality of the original systems during the Metro service hours;*
- *An independent safety assessor who shall evaluate the overall combined system of gates – fire detection – BACS and who shall play a decisive role in the design and the final configuration of the overall system, since the suggestions of this assessor must be adopted by all involved Contractors and the Contractor of this contract as well”.*

Will AM’s Project Manager be the person responsible for the immediate cooperation of the Contractor with the aforementioned entities?

A basic prerequisite is that the time windows to be specified by STASY S.A. shall not amend the Time Schedule per section, as specified in article 22 of the Invitation to Tender. In other words, the foreseen time frame for each section shall not be reduced, and in addition the overall Time Schedule of the Contract shall not be increased by more than 20%.

A basic prerequisite is that the independent safety assessor shall approve the safety of the operating fire detection system. Otherwise, the Contractor shall not be responsible for the changes required to make it safe.

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Response 17

- a) AM is responsible to coordinate the cooperation between the Contractor of this Contract and the entities mentioned in article 2.2. of the “Technical Description – Specifications” document.
- b) The deadlines listed in article 22 of the Invitation constitute contractual times for delivery. For all other matters, article 8 of the Conditions of Contract (CC) applies.
- c) Since it is not clear in your question how a “safe” system is defined, what we can say is that the independent safety assessor shall inspect the existing Fire Detection system exactly as it is (i.e., in accordance with EN54-14 for the extensions and in accordance with Vds/2000 for the base project) and on this basis he shall prepare the overall safety assessment.

Question 18

“13. After the implementation of the interfaces, tests shall follow (see articles 2.6 and 2.7), which will cover the independent as well as the combined operation of the two systems. As regards the independent BACS system, the tests shall also cover all tests conducted when the system was initially installed (i.e. without interface with the gates)”.

In case the tests are not successful and are conducted on devices or subsystems that were not replaced, the Contractor shall not be held responsible. Is that correct? Needless to say that the appropriate tests will have preceded and the relevant protocol will have been signed by STASY S.A and the Contractor.

Response 18

The tests to be conducted on the combined operation with the gates, as well as independently for the original functions of the Fire Detection system must be successful and demonstrate the proper operation of the original / additional / amended systems.