

## Position analysis of Shahriar official city based on passive defense principles

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Received: May 21, 2011 / Accepted: December 13, 2011, 41-44 P

### Extended abstract

#### 1- Introduction

The issue of passive defense has a long history especially in construction of urban spaces as well as public buildings. The accuracy of this claim can be found in Initial wars of Islam and defensive measures such as digging ditches, making a fort. Considering the improvement in technology and its effect on the development of WMD, the need for improvement in considerations of passive defense for reducing casualties of war is more felt. Since Iran is a country with strategic objectives and strategies such as: authoritarianism, self-seeking, preservation of territorial integrity, political independence, the pattern of local development, etc. and also due its location in the Middle East and having

unique geopolitical, geostrategic, geo-economic opportunities, applying a defensive consideration in urban development is very important. In this study, hazard zones in the country were identified and also sensitive buildings of Shahriyar were determined. Doing so, we can prevent financial and physical damages, of parts which are more prone to damage, before the occurrence of war.

#### 2- Methodology

This study is applied and the general approach is descriptive-analytical. The studied area is the zone of Shahriar in general and its official area in particular and the population was a number of experts in the public sector (municipalities), private sector (consulting engineers and engineering offices), government sector (Government agencies) and the public.

In order to better recognize the current status and understand the necessity to investigate the passive defense

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preparations, raw data were collected from the latest census of the country in 2006 and considering the comprehensive studies of Shahriar and getting the relevant maps from the urbanization and housing ministry, the location of the official cite of Shariar was determined in natural, economic and social dimensions and finally, using the matrix table, different levels of decision-making process in devising developmental projects were specified and presented.

### 3- Discussion

Assessing Shahriar official city based on passive defense principles

After having matrix stage and assessing all internal centers and the official region and based on the results obtained, we found that 7 areas of the town center have vital importance in Shahriar, 14 areas have sensitive importance and ultimately, 25 centers are important. Thus, based on the results

obtained, we can notice the significance of the centers of this area and we can investigate the application of passive defense principles in these centers. The passive defense principles include: downsizing, dispersion, locating, decentralization, camouflage, strength, coverage, land preparation, defense preparation, deception, cover, etc. It can be claimed that passive defense principles were not considered in Shahriar official cite and what is more important in urban passive defense is downsizing, dispersion, locating, and decentralization. Considering the aggregation of all official units in this town, the town in its entreaty composes a unique goal for the enemy, that if regulated, dispersion, decentralization and passive defense principles egress from a unique goal and they form defense urbanization. Based on the findings of the study, the weaknesses of this town in comparison to passive defense principles are as follows:

**Weaknesses of passive defense**

Passive defense principles	The current status of Shahriar official city
Downsizing	Mass construction
dispersion	Accumulation
locating	No
Decentralization	Intense focus
Camouflage	Easy to access and view
Strength	Average
Coverage	Easy to access and view
land preparation	No
defense preparation	No
Deception	No
Cover	No

Source: Author's

Thus, the only positive point or only the main objective which resulted in the aggregation of these centers in one town is the easy access for public and based on

the interviews and field studies, it was revealed that in the past, due to the dispersion of each center in different areas of the city, accessing them was

rather time-consuming considering the distance. While, with the accumulation of these centers in one area, their accessibility is easier in terms of traffic and time.

#### 4- Conclusion

Shahriar is a city of the Tehran province and is situated in its west part. It has wide fertile lands and gardens and in addition to the juncture role, it is a dormitory, service provider and a good kitchen garden for Tehran and near cities. Thus, paying special attention to citizens and their service needs, user distribution approach and sensitive and important facilities should not be ignored by planners. Thus, in this attempt, focusing on comprehensive studies on Shahriar and field studies, we try to identify important, sensitive and vital objectives of the city. Considering the input and output of the matrix table, the main areas of the city which should be decentralized include:

Governor (86 points), the gas office (86 points), Tehran South West Water (78 points), gasoline stations (78 points), Army Barracks (Kalhor) (78 points), water and sanitation (75 points), police (74 points). And it is suggested that each of these centers be transferred to one of the surrounding areas of Shahriar including Vahidieh, Ferdosieh, Andishe, Baghestan, Akhtarabad, Ja farie, Amirieh, Fararat and etc. It is emphasized that considering the high cost of this centralization, the vital areas be transferred in the first stage and in order to pass the crisis.

**Key words:** Passive defense, hazard zoning, Official City, Shahriar

#### References

- Ahmarlouei, M. H. (2010). Passive defense in early wars. Farabi faculty, Tehran.
- Esmaeili, M. (2008). Passive defense: a vital approach in organizing centers and urban skeleton. Congress on location information and urban integrative management.
- Asgharian, A. (2004). Architectural necessities in sustainable passive defense. Shahid Beheshti University, Architecture and Urbanization faculty.
- Etemad, S. (1992). Urbanization and defense: Modern cities of new urbanization culture. Articles on construction company of new cities, Tehran.
- Bidi, A. A. (2010). Principles and basics of passive defense in national safety, Farabi Faculty, Tehran.
- Takhti, B. (2006). The role of defenseless urban areas in reducing safety feeling of citizens. Revolution and housing Quarterly, 115.
- Rahnamaee, M. T. et al. (2005). Urban planning process of Iran. Samt Publication.
- Saeed, A. (2009). Urban and rural management diploma. Municipalities organization of Tehran.
- Sarvar, R. (2000). Applied geography and organizing activation system with guiding-constructive approach in regional areas, Geographical research.
- Shad, M. (2007). Basic theories of architecture in passive defense, Iran constructive advisor, Tehran.
- Norouzi, M. T. (2007). Guiding document of country's passive defense.
- Ziari, K. (2001). Defense planning and urban shelter, Sofe Magazine, 32, Shahid Beheshti University, Tehran.

- Colins, J. Main strategy (principles and approaches). Translated by Binandar, Political and international studies of foreign affairs ministry, Tehran.
- Movahedinia, J. (2007). Principles and basics of passive defense, Malek Ashtar industrial University, Tehran.
- Nazeri, A. (1981). Germany, non-military defense. The translator of safe constructions of Urbanization and housing ministry, Tehran.
- Nabati, E. (2009). The basics of passive defense. Farabi Faculty, Tehran.
- The forth issue (2005). Passive defense: Introducing safe shelters. Tehran.
- Bavand advisory engineers (2010). A report on comprehensive studies on Shahriar, Tehran.
- Banergeet. (1980), "Earth quakes", urban scale vulnerability and city design, some observations, school of urban and regional planning, university of southern California.
- Col Jhon Warde (2002) ,a Study of Clauswitz Concept of The Military Center Of Gravity.
- Us. Military. Glossary, (1998) Civil Defense And Other Emergencies, Faculty & Staff