INTRODUCTION

Although in the past three decades advances in technology and health standards, to continue to increase the deadly outbreak of food borne illness in the world, such as the outbreak of Salmonella serotype Enteritidis (SE), Listeria Monocytogenes (LM) and Bovine Spongiform Encephalopathy (BSE) in Europe and North America; in Japan; cholera in Asia, Africa and Latin America (World Health Organization, 2002). Rapid changes in lifestyle and global economic growth, this trend (World Health Organization, 2002) make a contribution. These two factors have led people to eat processed or imported food and food consumption dining establishments great numbers; increase global food supply and the people's movement has increased contact with food borne diseases due to exposure to foodborne hazards imported foods do not understand, or to ride on the road food consumption (World Health Organization, 2002). To help curb the rate of the food industry to produce foodborne illness, government agencies in Taiwan and other countries continue to adopt new regulations, such as drug Manufacturing Practices (GMP), Good Hygiene mandatory or voluntary enforcement of norms (GHP), Hazard Analysis and Critical Control Point (HACCP) and ISO9000 and 22000 series. In addition, other stakeholders, such as food safety advocacy groups, clients, the media and others, is to promote the enterprises to adopt from farm to table food safety strategy, such as risk assessment of the entire supply chain of external and internal production processes as they actively management decision-making process to minimize pollution caused by reputation, income and business interruption or loss. The incidence of foodborne illness may impair a country as a tourist destination (World Health Organization, 1999) in the world. Dining experience is the overall tourism tourist satisfaction (Chi and Qu, 2009; Ozdemir et al., 2012) of the most important predictors. Other studies have shown that the concept of food risks in their travel destination will also affect their purchasing decisions and other products, especially when they are traveling to less developed countries (Fuchs and Reichel, 2006; Yilmaz et al., 2009). Therefore, the implementation of a certified food safety standards, such as ground source heat pumps and HACCP standards will be beneficial, especially in underdeveloped countries or regions, such as Taiwan, through the provision of food quality assurance, strengthening the competitiveness of catering services and ultimately enhance the national reputation tourist destination or region. In about 40% of Taiwan foodborne disease outbreaks are linked commercial restaurants. Because of these repeated outbreaks of foodborne illness, Taiwan Department of Health published in 2000 the Food Safety Control System (FSCS), which includes the principles of HACCP and Good Hygiene Practices from (GHP), in order to make Taiwan with international standards. Began in September 2008, Taiwan's Ministry of Heath has been pushing FSCS standards for the hotel industry strict guidelines. These standards have been gradually results in export and international tourist hotels in the central kitchen or kitchen. In order to promote Taiwan tourism, since 2009, the Taiwan Tourism Bureau to provide economic incentives to encourage the hotel industry to improve their facilities and service quality to meet international standards, access to local or internationally recognized certificates such as FSCS.
Consumers react strongly to negative reports of food safety and their purchasing behaviors are negatively influenced (McKeown and Werner, 2009). Consumer food safety concerns have increased rapidly in recent years, as several high profile food incidents grabbed the headlines. Nevertheless serious incidents continue to occur. Food safety concerns have become an important factor for consumers in determining food selection and consumption. Chemical food additives, meats from diseased pigs and pesticide residuals are considered to be the most severe food safety problems by consumer in Taiwan, especially while they dine in commercial food outlets and consume processed food or meat products (Chen, 2008). Similar results were also found in two studies which indicated that food safety issues influenced consumers’ dining-out decisions (Radam et al., 2010; Knight et al., 2009). Fears of being featured on the media and press were one of reasons for foodservice initiating food safety control program (Sneed and Henroid, 2003). Therefore, the foodservice industry should try to build their reputation by offering less pre-packaged, processed food and more on healthy, nutritious fresh certified produces. Food Safety Control System (FSCS) specifies the requirements needed for food safety management to ensure the final food is safe for consumption. Therefore, the innovative food safety strategies currently adopted and the strategies being carried out in a Dongfangan hotel are the focus of this study.

Previous hospitality food safety research has focused only on the food safety control strategy. However, that the levels and types of food safety control strategy include not only a functional strategy (control and marketing strategy), but also a business (competitive advantage) and a corporate strategy (a link with quality and other corporate objectives) (Banerjee, 2001; Wu, 2012). The main aim of this study was to understand the food safety strategies (activities) in a hotel food service, while government bureaus have been gradually putting requirements and standards in place and encouraging tourist hotels to gain FSCS certification. This study explores experiences of the implementation and operation of FSCS in a Dongfangan international tourist hotel in Taiwan and thus identifies the key motivating factors and the challenges to implementing food safety strategies.

METHODOLOGY

An investigation of food safety strategies and the reasons food safety strategies are or are not implemented in hotel food services was carried out using multiple sources of data, including interviews, observation of environmental conditions and the review of documentation to increase the construct validity and reliability of this study (Yin, 1999). The method was designed to yield results that would assist the prediction of future drivers of food safety strategies and their uptake in the hotel food service industry. A franchised international tourist hotel that had voluntarily implemented the Food Safety Control System (FSCS) was identified as a suitable participant for the purposes of the study.

Semi-structured interviews were conducted with senior management in the hotel, such as managers, chefs and food safety supervisors, who were in management teams that had received special training in food safety control system principles (Wu, 2012). The interviewer (the researcher) specifically directed open-ended questions to the interviewee in relation to food safety strategies. A set of questions was as follows:

- What are the food safety practices in your company? How are they carried out in your firm? Why?
- Is it convenient for you to practice food safety strategies? If not, how could it be made convenient for you?
- What is your biggest food safety management difficulty?
- Is there anything that would assist you in your food safety management efforts?

With the consent of the participants, interviews were taped and later transcribed. A pattern matching analytical procedure was used to increase the internal validity of a study (Yin, 1999). It was anticipated that this analysis would lead to a set of food safety strategies being identified and their motivators.

The case study was conducted in a hotel that was a locally owned franchise of an international hotel chain. The chain’s first hotel opened in the early 1990s in Taiwan and there are now 9 hotels in the chain. The company has been striving to reinforce food safety strategies voluntary since early 1999 in all its hotels. It is company policy that all hotels in the chain adopt a Food Safety Control System (FSCS). The hotel that participated in this study obtained FSCS certification in 2011.

RESULTS AND DISCUSSION

Seven interviews with staff from the chain hotel were conducted for the case study. The interviewees included managers in the food and beverage departments, executive chefs, food safety supervisors, personnel managers and general managers. Most had been in the hotel industry for more than 10 years. All of them had received training in food safety and received FSCS certification. The average time per interview was 35 min. Observations of environmental conditions and examination of documentation such as annual reports, policy statements, employee manuals, product advertisements and corporate advertisements were also collected in order to obtain a greater understanding of operational systems. Many interesting issues were found
during analysis of the interviews. The interview data revealed that the study hotel engaged in many food safety strategies, such as safety control, marketing and corporate organization.

**Safety control strategies:** The study hotel’s capacity to provide sufficient personnel, a training program, time and resources was found to be the main barrier to the consistent use of a food safety control system (Panisello and Quantict, 2001; Brannon et al., 2009). As far as possible, however, the principles of the FSCS were adhered to by the various departments of the hotel, as well as the hotel’s suppliers. Production equipment; cleaning and sanitation; personal hygiene; training; chemical control; receiving, storage and shipping; traceability and recall; and pest control (http://food.fda.gov.tw) were all subject to provisions outlined in the FSCS. The interviewees indicated that the hotel’s Food Safety Control System (FSCS) could be successfully carried out with proper layout and equipment and an effective training and assessment program.

**Layout and equipment:** Analysis of the data from the interviews revealed that proper layout and equipment in the kitchen promoted food safety and supported food safety systems. With a more centralized kitchen, the interviewees indicated that less cost, better food quality and less food borne risk could be achieved.

“Our hotel has a centralized kitchen in the basement of the building where food ingredients are pre-processed and supplied to all the kitchens in the hotel. Cost can be reduced through easier control in inventory, better deal in purchasing with large quantities and less labor and equipment needed in each kitchen. Food quality is easier to control, not only in food freshness, texture and portion size, but also in food safety. Different areas for different kinds of food in process and storage are designed to eliminate cross contamination. Examples of physical separation include the space of food preparation and refrigeration separated according to the food type such as seafood, meat, cold process food, hot process food and bakery goods.” (Food and Beverage Manager, 20/07/2010, interview at the hotel office).

**In-house training and assessment:** Effective food safety training should be designed to closely match employees’ expectations and the organization’s goals and be accompanied by inducements that motivate staff in order to optimize training performance (Ogbeide, 2008; Salazar et al., 2005).

“In Taiwan, kitchen staffs need to have 8 h food safety seminar attendance each year or 32 h in 4 years to keep chef certification valid. FSCS certified kitchen needs to have 80% of kitchen staffs with chef certifications. In addition, at least three staffs need to have additional 32 h FSCS training course and pass qualify exam at the end of the course in order to form a FSCS team.” (Executive chef, 20/07/2010, interview at the hotel office).

For the food safety seminar, overall, the interviewees agreed that effectiveness of training is an important factor in gaining the employees’ commitment to the company’s goals in terms of the FSCS. However, all the interviewees agreed that the current training courses and certification awarded by the HACCP associations should offer a balance of practical skills development and knowledge requirements. Proper food safety handling skill should also be included in training courses and assessed by both theory and a practical exam. Overall, the interviewees indicated that hotel staff who attended the HACCP courses all felt that the information sessions were too long and that the content was boring.

“The idea that the HACCP course focuses on both GHP and HACCP plan development seems ok theoretically. However, it is hard for our staffs to sit and listen eight hours a day. An interactive short course should be developed by incorporating more case discussion after showing real examples of HACCP operation in pictures or video rather than too much written words theory. In addition, practical skill development on food preparation should also be included.” (Personnel Manager, 20/07/2010, interview at the hotel office).

An effective training system should not be without effective food safety management and compliance assessment. The interviewees indicated that hotel food safety was supervised and audited by an assistant manager in the Stewarding department who worked closely with the executive chef, all restaurants and kitchens and was fully empowered by the General Manager to communicate across departments on the issue of food safety. The General Manager of the hotel was very conscious of the food safety issue and had considerable experience in the operation of hotel kitchens and FSCS implementation. He always checked and made corrections on the food safety operation while walking around the hotel and often walked with the food safety supervisor. A video recording system was also used to assist the assessment of activities in the hotel.

“Our hotel has video camera around the food process area and the food safety auditor will review the video to see any defaults during operation. The auditor will also walk around the kitchen floor, take pictures and make correction. The audit report and video will be discussed with the kitchen staff during weekly meeting in which the staff will be able to identify the problem from practical examples. It is also hope to increase the staff involvement through the weekly discussion. The practical examples can also be a good material for food safety training.” (Food safety auditor, 20/07/2010, interview at the hotel office).

The Area Manager from the franchisor’s head office also conducted spot-checks of food safety standards implementation. In addition, every restaurant
in the hotel formed an audit team, which then assessed the other restaurants on a monthly rotation and reported to the executive chef. The Executive Chef in an interview indicated that temperature measuring and recording were especially important for FSCS implementation, but that not all the chefs were able to do the measuring and recording work. However, the senior management ensured that they received assistance.

“Many experienced chefs, especially in Chinese cuisine, usually have lower levels of education. Some of them have difficulty to read and write and do not have hospitality relevant degrees. Therefore, now we have kitchen stewards to assist the chef on measuring and record keeping to overcome this problem.” (Executive chef, 20/07/2010, interview at the hotel office).

As for environmental issues, many interviewees indicated that wearing disposable gloves was not necessary because, unlike the circumstances in a factory, most of their products were ready to eat after a short processing time. They noted that the bacteria on hands after proper washing was not enough to cause sickness, while the disposable gloves not only caused environmental problems, but also allowed employees to forget to actually wash their hands.

Marketing strategies: Many studies have shown that awareness of food safety or having the experience of food poisoning did influence consumers’ dine out decisions.

Transparent/open kitchen: The interviewees indicated that the customers’ trust concerning food safety and quality maintained or improved the company’s brand image. The presentation of transparent and open kitchens staffed with employees well trained in food safety was a sign to customers that food was being prepared in a safe way and that there was nothing to hide.

Advertising: The hotel advertised their food safety efforts by posting where their food came from and when they received FSCS certification on both their hotel’s webpage and restaurant entrances.

In-house training for the public: In one interview, a General Manager indicated that the hotel held in-house FSCS training courses sponsored by one of the HACCP associations and the training was not limited to their hotel staff, but that others could participate.

“At the end of the course, the trainee will take turn to observe and assess our Hotel FSCS system, then form a discussion after that. It is another way to advertising our hotel by having this activity.” (General Manager, 20/07/2010, interview at the hotel office).

The interviewee indicated that they hoped the customers and the trainee could judge the positive nature of the food safety effort from the dining environment and staff presentation.

Corporate strategies: Corporate social responsibility: In this study addressing food safety issues was found to be part of the company’s policy and was documented on the mission and vision statements of the company. All the chain hotels were required to obtain Food Safety Control System (FSCS) certification. The interviewees agreed that protecting the health and safety of the customers and employees by providing a healthy and safe environment was part of the hotel’s Corporate Social Responsibility (CSR). Many food safety efforts made by the company are outlined in annual reports and highlighted on the hotel webpage.

Management team: A FSCS management team was led by the hotel General Manager and consisted of the executive committees and other heads of department, including the Food and Beverage Manager, Chief Engineer Controller, Executive Chef, Sales and Marketing Manager, Personnel Manager, Restaurant manager, Banquet Manager, Stewards, Bar Manager. The FSCS team met monthly to discuss data gathered during assessments of the hotel and areas needing further improvement. The General Manager indicated that FSCS was a task that needed all departments to work together in order to effectively achieve required standards of food safety.

Food safety strategies and their motivators: Analysis of the interviews indicates that the commitment of senior management to food safety, the firm’s capacity to act and ideas of competitive advantage have the most positive effect on overall food safety strategies. Table 1 shows extracts of significant food safety strategies and primary motivators from the interview data.

The commitment of the management of a hotel to standards of food safety is the key driving factor for making the resources available for the implementation of a food safety control system. In Asia, most corporations still operate on a traditional hierarchical
basis in which decisions are made from the top (Ungku Fatimaha et al., 2011); therefore, commitment on the part of senior management is especially important. The implementation of a food safety control system in the hotel was mainly influenced by the senior management, who realized that FSCS needed the cooperation of all departments. The interviewees also indicated that a firm’s willingness to support FSCS relied on the proper provision of facilities and an in-house food safety training program with incentives to retain and motivate employees were significant motivators in promoting food safety program.

The objectives of competitive advantage are cost reduction and differentiation (Boshy, 2002), such as developing sound safe food products to improve reputation and brand loyalty. As mentioned earlier, cost saving can be easily achieved, as well as food quality and safety, with a centralized kitchen. However, interviewees indicated that the overall cost saving was minimal, compared to the investment cost. The interviewees stated that the senior management all realized the international trend toward food safety management and were willing to invest.

The franchising company’s policy was to have all the hotels in the chain obtain Food Safety Control System (FSCS) certification in order to create a brand image which customers could trust in terms of food safety and quality. Although the system was mostly carried out behind the centralized kitchen, transparent and open kitchen facilities in the dining areas were built for customers to see the hotel’s product differentiation and efforts to achieve food safety and quality. Advertisement on the hotel webpage and in-house training for the public on food safety issues were also used to improve the hotel’s image. One interviewee indicated that it was senior management’s intention to place food safety issues in the company’s strategic report, which can maintain or improve a company’s image. It was also the company’s policy to have a management team led by top management to run the food safety strategy more efficiently.

CONCLUSION

The main purpose of this study is to understand the Oriental Hotel’s food security strategy (activities), as well as the correlation between excitation between antecedents and food security policies to determine, in order to provide a new source of key assumptions to promote further research factors.

This study provides information on the "what" and the food security strategy and "how," "how," senior executives praised the detailed information on various incentives to carry out. Cognitive effects of corporate image, corporate capabilities and commitment to food security strategy in a large international hotel chains senior management provide insight trying to encourage or force stronger food safety control system faced problems. The results of this study indicate that help the hotel industry to further improve food security policies or practices of the most effective food safety practices and information. These results can be used as a further review of policy makers and educational institutions to ensure that the policy applies to the foundation of the hotel industry.

The study identified three major motivating factors-corporate image, corporate capabilities, senior management commitment, can be developed for further testing and improving new hypotheses. Data reduction by identifying the key factors in this process is the formation of future research is significant.

In addition, in this study on behalf of the relationship between incentives and food security strategies between and found the results can be applied to other areas of the food service industry, or face a similar situation and problems such as the country. The purpose of this study is not to draw conclusions from limited sample, but to provide direction, large-scale studies in the future. Therefore, any analysis of the results from the reaction of the respondents will not be used to summarize.

REFERENCES


